ISSN 0 030-4018

OPTICS COMMUNICATIONS

A journal devoted to the rapid publication of short contributions
in the field of optics and interaction of light with matter

MASTER INDEX

VOLUMES 31–40

AUGUST 1983

UNIVERSITY OF HAWAII
LIBRARY
OCT 14 1 07 PM '83

PERIODICAL
QC
350
0673
982
Index
.H. LIBRARY

NORTH-HOLLAND PUBLISHING COMPANY–AMSTERDAM

EDITOR:

F. ABELÈS
Laboratoire d'Optique des Solides, Université de Paris VI,
4 place Jussieu, 75230 – Paris Cédex 05, France

ASSOCIATE EDITORIAL BOARD:

G. MAYER, Paris, France
B.J. THOMPSON, Rochester, USA
P.E. TOSCHEK, Heidelberg, Germany

ADVISORY EDITORIAL BOARD

Australia
W.H. STEEL, Lindfield

Canada
A.J. ALCOCK, Ottawa

Finland
S. STENHOLM, Helsinki

France
M. BALKANSKI, Paris
M. FRANÇON, Paris
P. LALLEMAND, Paris
S. LOWENTHAL, Orsay
J. MARGERIE, Caen
M. MAY, Paris
D.B. OSTROWSKI, Nice
J.C. VIÉNOT, Besançon

Germany
O. BRYNGDAHL, Essen
K.H. DREXHAGE, Siegen
H. HAKEN, Stuttgart
W. KAISER, Munich
K.L. KOMPA, Garching
A. LOHMANN, Erlangen
H. RAETHER, Hamburg
F.P. SCHÄFER, Göttingen

Great Britain
A. CORNEY, Oxford
O.S. HEAVENS, York
S.A. RAMSDEN, Hull
W.T. WELFORD, London

Ireland
D.J. BRADLEY, Dublin

Israel
E. MAROM, Tel-Aviv

Italy
F.T. ARECCHI, Florence
R. PRATESI, Florence

Japan
K. KINOSITA, Tokyo
T. SASAKI, Tsukuba
K. SHIMODA, Yokohama
J. TSUJIUCHI, Tokyo

The Netherlands
B. BÖLGER, Eindhoven

Poland
M. SUFFCZYNSKI, Warsaw

Sweden
E. INGELSTAM, Stockholm
R. JACOBSSON, Täby

Switzerland
G. HARBEKE, Zurich

USA
H.E. BENNETT, China Lake, CA
N. BLOEMBERGEN, Cambridge, MA
J.C. DAINTY, Rochester, NY
J.W. GOODMAN, Stanford, CA
T.W. HÄNSCH, Stanford, CA
R.M. HOCHSTRASSER, Philadelphia, PA
R.P. MADDEN, Washington, DC
S.L. McCALL, Murray Hill, NJ
D. MARCUSE, Holmdel, NJ
L.M. NARDUCCI, Philadelphia, PA
C.K.N. PATEL, Murray Hill, NJ
W. PAUL, Cambridge, MA
M.O. SCULLY, Albuquerque, NM
T. TAMIR, Brooklyn, NY
J. TAUC, Providence, RI
E. WOLF, Rochester, NY
A. YARIV, Pasadena, CA

USSR
V.L. BONCH-BRUEVICH, Moscow
N.A. BORISEVICH, Minsk
V.S. LETOKHOV, Moscow
S. MANDELSTAM, Moscow
K.K. REBANE, Tallinn

The subscription price per volume is Dfl. 220.00 (approx. $ 88.00); postage Dfl. 20.00 (approx. $ 8.00).
Subscriptions should be sent to the publisher, North-Holland Publishing Company, P.O. Box 211, Amsterdam, The Netherlands, or to any subscription agent or bookseller. Claims for issues not received should be made within three months of publication. If not, they cannot be honoured free of charge.

North-Holland Publishing Company (1983). All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publisher, North-Holland Publishing Company, P.O. Box 103, 1000 AC Amsterdam, The Netherlands.
Submission of an article for publication implies the transfer of the copyright from the author(s) to the publisher and entails the author's irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by third parties (as mentioned in article 17 paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S.351) pursuant to article 16b of the Dutch Copyright Act of 1912 and/or to act in or out of Court in connection therewith.
Special regulations for readers in the USA. — This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the US Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1981 may be copied for a per-copy fee of US $ 2.25, also payable through the Center. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.
Special regulation for authors in the USA. — Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information under the US Copyright Law.

Published bi-monthly

Printed in the Netherlands

OPTICS COMMUNICATIONS

EDITOR:

F. ABELÈS
Laboratoire d'Optique des Solides, Université de Paris VI,
4 place Jussieu, 75230 – Paris Cédex 05, France

ASSOCIATE EDITORIAL BOARD:

G. MAYER, Paris, France
B.J. THOMPSON, Rochester, USA
P.E. TOSCHEK, Heidelberg, Germany

ADVISORY EDITORIAL BOARD

Australia
W.H. STEEL, Lindfield

Canada
A.J. ALCOCK, Ottawa

Finland
S. STENHOLM, Helsinki

France
M. BALKANSKI, Paris
M. FRANÇON, Paris
P. LALLEMAND, Paris
S. LOWENTHAL, Orsay
J. MARGERIE, Caen
M. MAY, Paris
D.B. OSTROWSKI, Nice
J.C. VIÉNOT, Besançon

Germany
O. BRYNGDAHL, Essen
K.H. DREXHAGE, Siegen
H. HAKEN, Stuttgart
W. KAISER, Munich
K.L. KOMPA, Garching
A. LOHMANN, Erlangen
H. RAETHER, Hamburg
F.P. SCHÄFER, Göttingen

Great Britain
A. CORNEY, Oxford
O.S. HEAVENS, York
S.A. RAMSDEN, Hull
W.T. WELFORD, London

Ireland
D.J. BRADLEY, Dublin

Israel
E. MAROM, Tel-Aviv

Italy
F.T. ARECCHI, Florence
R. PRATESI, Florence

Japan
K. KINOSITA, Tokyo
T. SASAKI, Tsukuba
K. SHIMODA, Yokohama
J. TSUJIUCHI, Tokyo

The Netherlands
B. BÖLGER, Eindhoven

Poland
M. SUFFCZYNSKI, Warsaw

Sweden
E. INGELSTAM, Stockholm
R. JACOBSSON, Täby

Switzerland
G. HARBEKE, Zurich

USA
H.E. BENNETT, China Lake, CA
N. BLOEMBERGEN, Cambridge, MA
J.C. DAINTY, Rochester, NY
J W. GOODMAN, Stanford, CA
T.W. HÄNSCH, Stanford, CA
R.M. HOCHSTRASSER, Philadelphia, PA
R.P. MADDEN, Washington, DC
S.L. McCALL, Murray Hill, NJ
D. MARCUSE, Holmdel, NJ
L.M. NARDUCCI, Philadelphia, PA
C.K.N. PATEL, Murray Hill, NJ
W. PAUL, Cambridge, MA
M.O. SCULLY, Albuquerque, NM
T. TAMIR, Brooklyn, NY
J. TAUC, Providence, RI
E. WOLF, Rochester, NY
A. YARIV, Pasadena, CA

USSR
V.L. BONCH-BRUEVICH, Moscow
N.A. BORISEVICH, Minsk
V.S. LETOKHOV, Moscow
S. MANDELSTAM, Moscow
K.K. REBANE, Tallinn

OPTICS COMMUNICATIONS

Editor:

F. ABELÈS, *Paris*

Associate Editors:

G. MAYER, *Paris* – B.J. THOMPSON, *Rochester, N.Y.*
P.E. TOSCHEK, *Heidelberg*

MASTER INDEX
VOLUMES 31–40

NORTH-HOLLAND PUBLISHING COMPANY–AMSTERDAM

North-Holland Publishing Company (1983)

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publisher, North-Holland Publishing Company, P.O. Box 103, 1000 AC Amsterdam, The Netherlands.

Submission of an article for publication implies the transfer of the copyright from the author(s) to the publisher and entails the author's irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by third parties (as mentioned in article 17 paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S.351) pursuant to article 16b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.

Special regulations for readers in the USA. – *This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the US Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1981 may be copied for a per-copy fee of US $2.25 also payable through the Center. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.*

Special regulations for authors in the USA. – *Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information under the US Copyright Law.*

PRINTED IN THE NETHERLANDS

AUTHOR INDEX TO VOLUMES 31–40

Aaviksoo, J., see P. Saari 39 (1981) 94
Abraham, E., S.S. Hassan and R.K. Bullough, Dispersive optical bistability in a Fabry-Pérot cavity 33 (1980) 93
Abraham, E. and R.K. Bullough, Semiclassical theory of quantum beat fluorescence 34 (1980) 345
Abraham, E. and S.S. Hassan, Effects of inhomogeneous broadening on optical bistability in a Fabry-Perot cavity 35 (1980) 291
Abraham, E., see S.S. Hassan 40 (1982) 461
Abraham, N.B., see D.C. Newitt 31 (1979) 393
Abraham, N.B. and S.R. Smith, Anticorrelations in the intensity fluctuations of orthogonally polarized components of the output of cw amplified spontaneous emission 38 (1981) 372
Abreu, R.A., see W.T. Hill III 32 (1980) 96
Adams, A., R.W. Rendell, R.W. Garnett, P.K. Hansma and H. Metiu, Effect of metal film thickness on surface–atom coupling 34 (1980) 417
Adams, C.R., see O.R. Wood II 33 (1980) 307
Adams, D.R., see C.D. Cantrell 40 (1982) 413
Aeschliman, D.P., see J.C. Cummings 31 (1979) 165
Agarwal, G.S., Saturation effects in hyper-Raman scattering and other resonant three photon processes 31 (1979) 325
Agarwal, G.S., F. Haake and G. Schröder, Theory of superfluorescence beats 34 (1980) 283
Agarwal, G.S., Bistability in coherent two-photon processes 35 (1980) 149
Agarwal, G.S., Stimulated Raman scattering in chaotic fields 35 (1980) 267
Agarwal, G.S. and P. Anantha Laskhmi, Cooperative effects in optical double resonance 35 (1980) 461
Agarwal, G.S., L.M. Narducci and E. Apostolidis, Effects of dispersion forces in optical resonance phenomena 36 (1981) 285
Agarwal, G.S., Coherence matrices of radiation from an excited system 37 (1981) 349
Agarwal, G.S., see S. Kumar 39 (1981) 197
Agarwal, G.S., see R. Saxena 40 (1982) 357
Ageev, V.P., see I. Ursu 35 (1980) 96
Ageev, V.P., see I. Ursu 39 (1981) 180
Agranovich, V.M., S.A. Darmanyan and A.G. Mal'chukov, Surface polariton spectra in the presence of a resonance with oscillations in anisotropic transition layer 33 (1980) 234
Agranovich, V.M., V.Y. Chernyak and V.I. Rupasov, Self-induced transparency in waveguides 37 (1981) 363
Agrawal, G.P., see H.J. Carmichael 34 (1980) 293
Agrawal, G.P., Optical bistability in a phase-conjugate Fabry-Perot cavity 37 (1981) 366
Agrawal, G.P. and C. Flytzanis, Propagation of two optical beams in a two-photon resonant medium 38 (1981) 216
Agrawal, G.P., Phase conjugation through two-photon resonant nondegenerate four-wave mixing 39 (1981) 272
Ahiman, V., see H. Friedmann 33 (1980) 163
Ahrenkiel, R.K., D. Dunlavy and A.J. Sievers, Generation of CO_2 pulses by free induction decay in $KCl : KReO_4$ 32 (1980) 503

Aime, C., S. Kadiri and G. Ricort, The influence of scanning rate in sequential analysis of a speckle pattern. Application to speckle boiling 35 (1980) 169
Aime, C., S. Kadiri, F. Martin and G. Ricort, Temporal autocorrelation functions of solar speckle pattern 39 (1981) 287
Aitken, G.J.M., Split-band interferometers 40 (1981) 5
Albrecht, G., A. Antonetti and G. Mourou, Temporal shape analysis of Nd^{3+} : YAG active-passive mode-locked pulses 40 (1981) 59
Albrecht, G.F. and J. Bunkenburg, Active-passive mode-locked oscillator generating nanosecond pulses 38 (1981) 377
Alcock, A.J., see R.S. Taylor 31 (1979) 197
Alcock, A.J., see P. Cassard 38 (1981) 127
Aldcroft, D.A., see J.M. Green 39 (1981) 99
Alekseev, A.I. and A.M. Basharov, Optical nutation and photon echo by phase or amplitude shift of light waves 36 (1981) 291
Alekseev, A.I. and A.M. Basharov, Polarization of coherent radiation in separated fields 38 (1981) 39
Alexic', A., K. Nikolie', J. Buric', D. Magnant and H. Payen de la Garanderie, Absorption coefficient of luminescent bodies in the emission band 40 (1982) 353
Alexiewicz, W., see L. Sczaniecki 34 (1980) 57
Alfano, R.R., see D.L. Rosen 35 (1980) 125
Alfano, R.R., see N.H. Schiller 35 (1980) 451
Alimov, D.T., see N.B. Delone 36 (1981) 459
Alimpiev, S.S., N.V. Karlov, S.M. Nikiforov, A.M. Prokhorov, B.G. Sartakov, E.M. Khoklov, and A.L. Shtarkov, Spectral characteristics of the SF_6 molecules excitation by a strong IR laser field at continuously tuned radiation frequency 31 (1979) 309
Aliotta, F., G. Maisano, P. Migliardo and C. Vasi, A new technique for Raman spectroscopy in highly absorbing liquid systems 32 (1980) 274
Alippi, A., A. Palma, L. Palmieri, G. Socino and E. Verona, Real time acousto-optical spectrum analyzer through unguided light–surface acoustic waves interaction 35 (1980) 37
Alippi, A., A. Palma, L. Palmieri, G. Socino and E. Verona, Time integrating acousto-optical correlator based on light polarization processing 40 (1981) 19
Al-Jumaily, G., see F.A. Hopf 36 (1981) 487
Allain, M. et G. Roblin, Problème d'asservissement posé en interférométrie à modulation de phase par l'instabilité du modulateur 39 (1981) 113
Allan, G.R., see B.W. Davis 37 (1981) 303
Allcock, G. and D.R. Hall, An efficient, RF excited, waveguide CO_2 laser 37 (1981) 49
Allegrini, M. and L. Moi, New laser-excited band in Na_2 32 (1980) 91
Allegrini, M., P. Bicchi, L. Moi and P. Savino, Observation of the reflection of laser oriented atoms by non disorientating surfaces 32 (1980) 396
Allegrini, M., P. Bicchi, S. Gozzini and P. Savino, Observation of fluorescence from high-lying states of potassium in a sodium-potassium mixture upon resonant laser exitation 36 (1981) 449
Al-Marzouk, K., Generation of a uniform line source using a binary filter 35 (1980) 161
Amaré, J.C., see A. Eichhorn 31 (1979) 306
Ambartzumian, R.V., G.N. Makarov and A.A. Puretzky, Influence of collisions and pulse intensity on multiple photon absorption in SF_6 34 (1980) 81
Amer, N.M., see Z.A. Yasa 36 (1981) 406
Aminoff, C.G. and M. Kaivola, High power single-mode cw dye laser with Michelson mode selector 37 (1981) 133

Amirav, A., U. Even and J. Jortner, Spectroscopic identification of the onset of the vibrational quasicontinuum in large molecules 32 (1980) 266
Anantha Laskhmi, P., see G.S. Agarwal 35 (1980) 461
Andersson, T. and S.T. Eng, Gigahertz bandwidth measurements of photodetectors and fibers using picosecond pulses generated by semiconductor lasers 38 (1981) 170
Andreoni, A., R. Cubeddu, S. de Silvestri and P. Laporta, Time-resolved fluorescence spectrum of quinacrine mustard 33 (1980) 277
Andrews, A.J., see A.J. Kearsley 31 (1979) 181
Anliker, P., see P. Labudde 32 (1980) 385
Antonetti, A., R. Astier, J.L. Martin, A. Migus, D. Hulin and A. Mysyrowicz, Picosecond spectroscopy in Cu_2O; exciton dynamics and two-photon absorption 38 (1981) 431
Antonetti, A., see G. Albrecht 40 (1981) 59
Antonov, V.M., R.M. Mamilayev, J.P. Nalimov and A.H. Shakirov, 3-D holographic pictures of human lungs 38 (1981) 81
Antonov, V.S., V.S. Letokhov and A.N. Shibanov, Laser photoionization and mass-spectral detection of single naphthalene molecules 38 (1981) 182
Antoranz, J.C. and M.G. Velarde, Phase diagrams of a laser with absorber 38 (1981) 61
Antsigin, A.D., S.N. Atutov, F.Kh. Gel'Mukhanov, A.M. Shalagin and G.G. Telegin, Gas diffusion induced by resonance light field 32 (1980) 237
Apostol, I., see I. Ursu 35 (1980) 96
Apostol, I., see I. Ursu 39 (1981) 180
Apostolidis, A.G., and J. Spyridelis, Image multiplexing and color images with theta modulation of the speckle patterns 40 (1982) 249
Apostolidis, E., see G.S. Agarwal 36 (1981) 285
Arecchi, F.T., D. Bertani and S. Ciliberto, A fast versatile optical profilemeter 31 (1979) 263
Arecchi, F.T., J. Gea and F. Romanelli, A heuristic derivation of the time dependent properties of a free electron laser 36 (1981) 144
Arimondo, E., see D.J. Jackson 33 (1980) 51
Arimondo, E., A. Bambini and S. Stenholm, Diffraction pattern of atoms in a resonant standing wave laser field 37 (1981) 103
Arimondo, E., see R. Corbalán 38 (1981) 113
Arimondo, E., see R. Corbalán 40 (1981) 29
Aristov, V.V., G.A. Bashkina and A.I. Erko, Holography of microobjects in soft X-rays 34 (1980) 332
Arnold, S., see B.A. Garetz 31 (1979) 1
Arsenault, H.H., The rotation of light fans by cylindrical lenses 31 (1979) 275
Arsenault, H.H., see M. Denis 38 (1981) 166
Arutunyan, V.M., G.P. Djotyan, A.V. Karmenyan, T.E. Melicksetyan and E.M. Sarkissyan, Thin-film narrowband tunable dye laser 36 (1981) 227
Asakura, T., see N. Nakajima 37 (1981) 5
Ash, G.S., see A. Miller 33 (1980) 297
Aspect, A., C. Imbert and G. Roger, Absolute measurement of an atomic cascade rate using a two-photon coincidence technique. Application to the $4p^2\ ^1S_0$–$4s4p\ ^1P_1$–$4s^2\ ^1S_0$ cascade of calcium excited by a two photon absorption 34 (1980) 46
Asquini, M.L., see F. Casagrande 32 (1980) 492
Atutov, S.N., see A.D. Antsigin 32 (1980) 237
Audoin, C., see F. Plumelle 34 (1980) 71
Aussenegg, F.R., A Leitner and M.E. Lippitsch, Observation of the influence of external feedback on passive mode-locking 31 (1979) 231

Aussenegg, F.R. and A. Leitner, A short resonator dye laser pumped by a travelling wave N_2-laser 32 (1980) 121
Aussenegg, F.R., M.E. Lippitsch, J. Brandmüller and W. Nitsch, Collinear and noncollinear emission of anti-Stokes and second order Stokes Raman radiation 37 (1981) 59
Aussenegg, F.R., M.E. Lippitsch and R. Möller, Static field dependence of the Raman polarizability demonstrated in polystyrene 40 (1982) 263
Avrillier, S., J.-M. Raimond, C.J. Bordé, D. Bassi and G. Scoles, Supersonic beam spectroscopy of low J transitions of the ν_3 band of SF_6: Rabi oscillations and adiabatic rapid passage with a cw laser 39 (1981) 311

Baba, N. and K. Murata, Maximum entropy image reconstruction from projections 38 (1981) 91
Bacis, R., see J.P. Pique 36 (1981) 354
Baer, M., see I. Last 39 (1981) 83
Baev, V.M., H. Schröder and P.E. Toschek, LiF : F_2^+-centre laser for intracavity spectroscopy 36 (1981) 57
Baev, V.M., G. Gaida, H. Schröder and P.E. Toschek, Quantum fluctuations of a multimode laser oscillator 38 (1981) 309
Bagratashvili, V.N., V.S. Doljikov, V.S. Letokhov, A.A. Makarov, L.P. Maljavkin, E.A. Ryabov, E.G. Silkis and Yu.G. Vainer, Stochastization limit of vibrational energy in SF_6 and CF_3I molecules at IR multiple photon excitation 38 (1981) 31
Baird, K.M., D.S. Smith and B.G. Whitford, Confirmation of the currently accepted value 299 792 458 metres per second for the speed of light 31 (1979) 367
Bakos, J.S., I.B. Földes, P.N. Ignácz and Z. Sörlei, Light scattering and self-focussing in laser produced sparks 37 (1981) 408
Ballagh, R.J., J. Cooper, M.W. Hamilton, W.J. Sandle and D.W. Warrington, Optical bistability in a gaussian cavity mode 37 (1981) 143
Balmer, F.E., see P. Ladrach 31 (1979) 350
Balmer, J.E., see T.P. Donaldson 31 (1979) 61
Balmer, J.E., see A.P. Schwarzenbach 39 (1981) 247
Balter, A., see R.K. Bauer 34 (1980) 379
Baltes, H.P., see A.M.J. Huiser 37 (1981) 307
Baltes, H.P., see A.M.J. Huiser 40 (1981) 1
Balykin, V.I., Cyclic interaction of Na atoms with circularly polarized laser radiation 33 (1980) 31
Bambini, A., R. Bonifacio and S. Stenholm, Equations for pulse propagation in a free electron laser 32 (1980) 306
Bambini, A., see E. Arimondo 37 (1981) 103
Bandilla, A. and H.-H. Ritze, Photon statistics of radiation produced by destructive interference of two-photon absorbed light 32 (1980) 195
Bandilla, A. and H.-H. Ritze, Photon statistics of fields generated by interference of modes correlated by parametric processes 34 (1980) 190
Bantegnie, J.F., see M. Lyszyk 37 (1981) 53
Barakat, R., Bilinear constraints between elements of 4×4 Mueller-Jones transfer matrix of polarization theory 38 (1981) 159
Bărbulescu, D., see I. Ursu 39 (1981) 180
Bar-Joseph, I., see Y. Silberberg 39 (1981) 265
Baron, K., see K. Wickert 40 (1982) 337
Barrat, J.-P., see D. David 32 (1980) 241
Bartelt, H.O., K.-H. Brenner and A.W. Lohmann, The Wigner distribution function and

its optical production 32 (1980) 32
Bartelt, H.O., One-dimensional image transformation in white light 38 (1981) 239
Basharov, A.M., see A.I. Alekseev 36 (1981) 291
Basharov, A.M., see A.L. Alekseev 38 (1981) 39
Bashkina, G.A., see V.V. Aristov 34 (1980) 332
Bassi, D., see S. Avrillier 39 (1981) 311
Basting, D., see H. Telle 38 (1981) 402
Bastow, S.J. and M.H. Dunn, The generation of tunable UV radiation from 238–249 nm, by intracavity frequency doubling of a coumarin 102 dye laser 35 (1980) 259
Basu, S.P., see R.N. Chakraborty 39 (1981) 347
Bates, R.H.T. and F.M. Cady, Towards true imaging by wideband speckle interferometry 32 (1980) 365
Batishche, S.A., V.S. Burakov, Yu.V. Kostenich, V.A. Mostovnikov, P.A. Naumenkov, N.V. Tarasenko, V.I. Gladushchak, S.A. Moshkalev, G.T. Razdobarin, V.V. Semenov and E.Ja. Shreider, Optimal conditions for third-harmonic generation in gas mixtures 38 (1981) 71
Battaglia, G. and G. Vetri, Frequency distribution of the third harmonic generation in atomic systems 40 (1982) 195
Bauer, R.K. and A. Balter, Study of the dissipation of vibrational energy excess using pulse fluorometry 34 (1980) 379
Bauer, S.H., see J. Krasinski 35 (1980) 363
Baumann, M., M. Geisler, H. Liening and H. Lindel, Lifetime- and quantumbeat measurements in the excited $4f^{14}6s6d$ D-states in the Yb I-spectrum using stepwise laser excitation 38 (1981) 259
Bazargan, K. and M.R.B. Forshaw, An image-plane hologram with non-image-plane motion parallax 32 (1980) 45
Bazin, C., see D.A.G. Deacon 40 (1982) 373
Bear, M., see Y. Reuven 32 (1980) 320
Beaudin, G., see L. Moi 33 (1980) 47
Bechthold, P.S., M. Campagna and J. Chatzipetros, Variable temperature photoacoustic spectroscopy, I. Instrumentation 36 (1981) 369
Bechthold, P.S. and M. Campagna, Variable temperature photoacoustic spectroscopy. II. Temperature characteristics and applications 36 (1981) 373
Becker, W., Multiphoton analysis of the free electron laser 33 (1980) 69
Becker, W., The gain-spread relation in a multiphoton picture of the free electron laser 36 (1981) 64
Begemann, M.H. and R.J. Saykally, Color center laser optogalvanic spectroscopy of lithium, barium, neon and argon Rydberg states in hollow cathode discharges 40 (1982) 277
Beigang, R., Color center laser pumped by a flashlamp-pumped dye laser 34 (1980) 249
Beigang, R., see A.S. Subdø 37 (1981) 417
Bekker, A.M., N.I. Bukhtoyarova and B.G. Turukhano, An optimization of recording of holograms formed with spatially modulated reference waves 31 (1979) 290
Bekker, A.M., N.I. Bukhtoyarova and B.G. Turukhano, A method of recognition of blurred-edge objects 39 (1981) 231
Bekov, G.I., E.P. Vidolova-Angelova, L.N. Ivanov, V.S. Letokhov and V.I. Mishin, Double-excited narrow autoionization states of ytterbium atom 35 (1980) 194
Belanger, L.J., see S.R.J. Brueck 34 (1980) 199
Belanger, P.A., see P. Benard 34 (1980) 101
Belanger, P.A., see M. Piche 35 (1980) 137
Belke, S., M. Schubert and K. Vogler, Measurements on gain and fast nonradiative relaxation of optically excited F-centers in KCl 38 (1981) 369

Ben-Amar, A., see R. Shuker 39 (1981) 51
Bendjabaliah, C., Clipped time autocorrelation function of intensity fluctuations for a non gaussian field 34 (1980) 164
Benetti, P., M. Broglia and P. Zampetti, Lifetime measurements in atomic uranium beam by laser induced fluorescence 36 (1981) 218
Benza, V., L.A. Lugiato and P. Meystre, Analytical description of self-pulsing in absorptive optical bistability 33 (1980) 113
Benza, V., see L.A. Lugiato 39 (1981) 405
Bergman, J.G., see J.P. Heritage 35 (1980) 373
Bernage, P., P. Niay and R. Houdart, Stimulated electronic Raman scattering in potassium vapour 36 (1981) 241
Bernard, P., P. Mathieu and P.A. Belanger, Injection tuning and mode locking of a TEA-CO_2 laser on low gain rotational lines 34 (1980) 101
Bernard, P., P. Mathieu and J.R. Izatt, Fine frequency tuning of high power TEA CO_2 lasers 37 (1981) 285
Berndt, K. and E. Klose, High-frequency modulation of Ar-ion laser radiation due to stable two-mode oscillation 35 (1980) 417
Berrue, J., A. Chave, B. Dumon and M. Thibeau, A new apparatus for measuring the depolatization ration of light scattered by gaseous argon, methane and tetrafluoromethane 31 (1979) 317
Berry, A.J., D.C. Hanna and C.G. Sawyers, High power, single-frequency operation of a Q-switched TEM_{00} mode NdYAG laser 40 (1981) 54
Bertani, D., see F.T. Arecchi 31 (1979) 263
Berthier, S. and J. Lafait, Effective medium theory: mathematical determination of the physical solution for the dielectric constant 33 (1980) 303
Bescós, J., J.A. Méndez, A. Prieto, R. Hernández and J. Santamaria, Hybrid gray level-spatial frequency pseudocolour encoding with phase filters 37 (1981) 239
Besnainou, S., see J.-C. Diels 37 (1981) 11
Beterov, I.M. and N.V. Fateyev, Optogalvanic demonstration of state-to-state dissociative electron capture rate in I_2 40 (1982) 425
Beverini, N., F. Strumia and G. Rovera, Buffer gas pressure in the $m_F = 0 \rightarrow m_F = 0$ ground state hyperfine line in Cs 37 (1981) 394
Beys, L., see D.S. Chemla 32 (1980) 187
Bhattacharyya, S.K., P. Eggett and L. Thomas, Locking of flashlamp-pumped dye laser at small injection powers 39 (1981) 387
Bhide, V.G., see M.M. Pradhan 40 (1982) 361
Białas, J., W.J. Firth and P.E. Toschek, Two-photon light shift 36 (1981) 317
Bicchi, P., see M. Allegrini 32 (1980) 396
Bicchi, P., see M. Allegrini 36 (1981) 449
Bielke, K. and R. Schieder, Investigation of the absorptions of monoisotopic OsO_4 with CO_2 and N_2O laser lines with saturation spectroscopy 35 (1980) 342
Billardon, M., see D.A.C. Deacon 40 (1982) 373
Billon, D., see J. Launspach 38 (1981) 407
Biraben, F., see F. Trehin 31 (1979) 76
Biraben, F., see G. Grunberg 36 (1981) 403
Birch, K.P., see B.R. Marx 33 (1980) 287
Birman, J.L., see A. Puri 37 (1981) 81
Bixler, H., see J.M. Herbelin 36 (1981) 475

Bjorklund, G.C., R.R. Freeman and R.H. Storz, Selective excitation of Rydberg levels in atomic hydrogen by three photon absorption 31 (1979) 47
Blanchard, M., see G. Roy 33 (1980) 65
Blaschuk, V.N., A.V. Mamaev, N.F. Pilipetsky, V.V. Shkunov and B.Ya. Zel'dovich, Wave front reversal angular tilting-theory and experiment for the four wave mixing 31 (1979) 383
Blaszczak, Z., see T. Kulinski 35 (1980) 120
Blau, W. and A. Penzkofer, Intensity detection of picosecond ruby laser pulses by two photon absorption 36 (1981) 419
Blazhenkov, V.V., A.N. Kirkin, A.V. Kononov, L.P. Kotenko, A.M. Leontovich, G.I. Merzon, A.M. Mozharovsky and S.D. Zakharov, Evidence of supra-thermal electron fluxes in laser-produced plasma from the polarization and anisotropy of X-ray bremsstrahlung emission 34 (1980) 231
Bloch, D., R.K. Raj and M. Ducloy, Doppler-free heterodyne spectroscopy of H_α. Measurement of the $2s_{1/2}$ collisional quenching in gas cell 37 (1981) 183
Blodgett, J.A., see H.H. Szu 35 (1980) 317
Bloembergen, N., see R. Yen 31 (1979) 334
Bloembergen, N., see R. Yen 35 (1980) 277
Bloembergen, N., see T.B. Simpson 37 (1981) 256
Bloomfield, L.A., see B. Couillaud 35 (1980) 359
Boatner, L.A., see R. Orlowski 35 (1980) 45
Boehly, T., see B. Yaakobi 39 (1981) 175
Boer, A.G., see G.J. Ernst 34 (1980) 221, 235
Boer, A.G., see G.J. Ernst 35 (1980) 249
Boggess, T.F., see A.L. Smirl 34 (1980) 463
Bogomolov, Ya.L., V.L. Bratman, N.S. Ginzburg, M.I. Petelin and A.D. Yunakovsky, Nonstationary generation in free electron lasers 36 (1981) 209
Bohidar, H. and S. Chopra, Experimental studies of entropy and concentration fluctuation by photon correlation technique 36 (1981) 46
Bohidar, H. and S. Chopra, Surface studies of absorbing thin solid films 38 (1981) 52
Boissel, P. and F. Kerherve, Absorption de lumière par des atomes dans une onde evanescente 37 (1981) 397
Boissoles, J., Photo-electric yield calculation on a rough surface for normally incident light in the spectral range of surface plasmon excitation. Application to indium films 37 (1981) 190
Bolognini, N., see H.J. Rabal 34 (1980) 7
Bolognini, N., H.J. Rabal, E.E. Sicre and M. Garavaglia, Vibration analysis with Young's fringes modulated speckle 34 (1980) 337
Bolognini, N., see H.J. Rabal 39 (1981) 225
Bondar, I.I., see N.B. Delone 40 (1982) 268
Böner, F. and W. Staude, Speckle motion due to laser light scattering off non-homogeneous media 40 (1982) 407
Boni, R., see W. Seka 34 (1980) 469
Boni, R., see W. Seka 40 (1982) 437
Bonifacio, R., J.D. Farina and L.M. Narducci, Transverse effects in superfluorescence 31 (1979) 377
Bonifacio, R., and M.O. Scully, Generalized gain-spread expressions for the free electron laser 32 (1980) 291
Bonifacio, R., see A. Bambini 32 (1980) 306
Bonifacio, R., Coherent states of a free electron laser 32 (1980) 440
Bonifacio, R., see G. Dattoli 34 (1980) 240

Bonifacio, R., F. Casagrande and L.A. Lugiato, Exact one-particle theory of a free electron laser 36 (1981) 159
Bonifacio, R., F. Casagrande and G. Casati, Cooperative and chaotic transition of a free electron laser hamiltonian model 40 (1982) 219
Bor, Zs., see B. Rácz 36 (1981) 399
Bor, Zs., see N. Periasamy 39 (1981) 298
Bor, Zs., Amplified spontaneous emission from N_2-laser pumped dye lasers 39 (1981) 383
Bor, Zs., A. Müller and B. Rácz, UV and blue picosecond pulse generation by a nitrogen-laser-pumped distribution feedback dye laser 40 (1982) 294
Bordé, C.J., see A. Clairon 35 (1980) 368
Bordé, C.J., see S. Avrillier 39 (1981) 311
Borghs, G., P. de Bisschop, J.-M. van den Cruyce, M. van Hove and R.E. Silverans, Parallel–antiparallel measurements in collinear fast beam laser spectroscopy 38 (1981) 101
Borisevich, N.A., V.A. Povedailo and V.A. Tolkachev, Vapor dye lasers with multiplate reflectors 33 (1980) 203
Bormans, B.J.M. and A.H.M. Olbertz, An investigation of the spectral content of a mode-locked CO_2 laser 34 (1980) 431
Borsella, E., R. Fantoni, S. Ribezzo and G. Salvetti, Some aspects of CO_2 laser induced fluorescence in SF_6-H_2 mixtures 39 (1981) 365
Borshch, A., M. Brodin, V. Volkov and N. Kukhtarev, Phase conjugation by the degenerate six-photon mixing in semi-conductors 35 (1980) 287
Boscolo, I., M. Leo, R.A. Leo, G. Solliani and V. Stagno, An analysis of the transverse optical klystron (TOK) and the free electron laser (FEL) through the exact solution of their evolution equation 36 (1981) 337
Böttner, T., see R. Schmiedl 31 (1979) 329
Bouchiat, M.A. and L. Pottier, A high-purity circular polarization modulator: application to birefringence and circular dichroism measurements on multidielectric mirrors 37 (1981) 229
Bouchiat, M.A., J. Guena and L. Pottier, Optical orientation, via spin–orbit coupling, in the final state of the Stark induced 6S-7S cesium transition 37 (1981) 265
Bourke, P., see B. Yaakobi 34 (1980) 213
Bourke, P., see B. Yaakobi 38 (1981) 196
Bourke, P., see B. Yaakobi 39 (1981) 175
Bourne, O.L. and P.E. Dyer, A novel stable–unstable resonator for beam control of rare-gas halide lasers 31 (1979) 193
Box, S.J.C., see P.K. John 33 (1980) 213
Brackmann, U., see W. Zapka 36 (1981) 79
Bradley, D.J., see J.O. Tocho 34 (1980) 122
Bradley, D.J., see J.O. Tocho 37 (1981) 67
Bradley, D.J., see W. Margulis 32 (1980) 331
Brand, H., see A. Schenzle 31 (1979) 401
Brand, H., R. Graham and A. Schenzle, Wigner distribution of bistable steady states in optical subharmonic generation 32 (1980) 359
Brand, J.C.D., K.J. Cross, N.P. Ernsting and A.B. Yamashita, Stimulated emission enhanced polarization labelling 37 (1981) 178
Brand, J.C.D., A.K. Kalkar and A.B. Yamashita, Rational constants of the E 0_g^+ state of I_2 determined by polarization spectroscopy 39 (1981) 235
Brandenberger, J.R. and B.R. Rose, Quantum beat determination of lifetimes and disalignment cross sections in neon 36 (1981) 453

Brandmüller, J., see F.R. Aussenegg 37 (1981) 59
Brassart, G., R. Garslian et P. Le Nai, Modulateur electrooptique pour l'extraction d'une impulsion lumineuse d'un train 36 (1981) 477
Bratman, V.L., see Ya.L. Bogomolov 36 (1981) 209
Braunecker, B. and O. Bryngdahl, Multiplex optical processing – Combination of polychromatic light and a dispersive element 40 (1982) 332
Brechignac, G., Ph. Cahuzac and A. Debarre, Anomalous off-axis-emissions on the resonance strontium line, illuminated by a quasi-resonant pulsed laser light 35 (1980) 87
Breidne, M., see A. Roger 35 (1980) 299
Brenner, K.-H., see H.O. Bartelt 32 (1980) 32
Bridoux, M., see H. Surbeck 38 (1981) 57
Brieger, M., H. Büsener, A. Hese, F. v. Moers and A. Renn, Enhancement of single frequency SGH in a passive ring resonator 38 (1981) 423
Briers, J.D., see A.F. Fercher 37 (1981) 326
Brink, D.J., see D. Schmieder 36 (1981) 223
Brink, D.J., A cw CO chemical laser based on a hollow-cathode discharge 39 (1981) 188
Brink, G., A. Glassman and R. Gupta, Lifetime measurement of the $(5d6p)^3D_3$ state of barium by dye-laser spectroscopy 33 (1980) 17
Brink, G.O., An alternative model of cw dye laser intracavity absorption 32 (1980) 123
Brink, G.O., see P. Kumar 32 (1980) 129
Brink, G.O., see L.R. Lewellen 39 (1981) 159
Brinkwerth, W., see W. Hüffer 33 (1980) 85
Brito Cruz, C.H., E. Palange and F. de Martini, High power subnanosecond pulse generation in Nd YAG lasers 39 (1981) 331
Brito Cruz, C.H., P. Mataloni, M. Romagnoli and F. de Martini, High power short pulse generation in two-frequency flashpumped dye laser 39 (1981) 339
Brito Cruz, C.H., F. de Martini, H.L. Fragnito and E. Palange, Picosecond pulse generation by intracavity nonlinear compression in self-injected Nd-YAG laser 40 (1982) 298
Britov, A.D., see V.G. Koloshnikov 35 (1980) 213
Brodin, M., see A. Borshch 35 (1980) 287
Brodnikovsky, A.M., S.M. Gladkov and N.I. Koroteev, Strong selective excitation of Raman-active vibrations and energy transfer between low-lying vibrational states of a CO_2 molecule studied by CARS and PARS 40 (1982) 312
Broglia, M., see P. Benetti 36 (1981) 218
Brown, C.M., An iterative improvement algorithm for coherent codes 33 (1980) 241
Brown, N., see P.F. Ciddor 34 (1980) 53
Bruce, D.M., M.Y. Mirza and W.W. Duley, Collision broadening and shift of the S and D Rydberg levels of rubidium by He and Ar 40 (1982) 347
Brueck, S.R.J., H. Kildal and L.J. Belanger, Photo-acoustic and photo-refractive detection of small absorptions in liquids 34 (1980) 199
Brunner, W. and H. Paul, Mode competition and frequency locking 31 (1979) 214
Brunner, W., see S. Raab 32 (1980) 133
Brunner, W. and H. Paul, Theory of high-frequency modulation of Ar-ion laser radiation due to stable two-mode oscillation 35 (1980) 421
Brunol, J., R. Sauneuf and J.P. Gex, Microcoded aperture imaging applied to laser plasma diagnosis 31 (1979) 129
Brunol, J., L. Garnero and J.C. Saget, Analyse du codage de l'information en tomographie longitudinale à haute resolution 35 (1980) 311

Bryngdahl, O., Beat pattern selection–multi-color-grating moiré 39 (1981) 127
Bryngdahl, O., see B. Braunecker 40 (1982) 332
Buffa, R., P. Burlamacchi, M. Matera, H.F. Ranea Sandoval and R. Salimbeni, High repetition rate effects in XeCl TEA lasers 40 (1982) 288
Bugaev, A.A., Recording a volume image on a wavelength which does not exist in the source of emission 36 (1981) 270
Bukhtoyarova, N.I., see A.M. Bekker 31 (1979) 290
Bukhtoyarova, N.I., see A.M. Bekker 39 (1981) 231
Bulabois, J., see D. Courjon 31 (1979) 270
Bullough, R.K., see J.A. Hermann 31 (1979) 219
Bullough, R.K., see E. Abraham 33 (1980) 93
Bullough, R.K., see E. Abraham 34 (1980) 345
Bunkenburg, J., see G. Monrou 34 (1980) 252
Bunkenburg, J., see G.F. Albrecht 38 (1981) 377
Burakov, V.S., see S.A. Batishche 38 (1981) 71
Burek, A.J., see B.Yaakobi 38 (1981) 196
Bures, J., see J. Lapierre 40 (1981) 95
Burggraf, H., see H. Harde 38 (1981) 211
Burggraf, H., see H. Harde 40 (1982) 441
Burghardt, B., R. Harzer, G. Meisel and S. Penselin, Isotope separation of Dy atoms using laser excitation followed by charge exchange with C_S^+ ions 33 (1980) 169
Burgos, A.H., see A.A. Hnilo 33 (1980) 311
Buric, J., see A. Alexic 40 (1982) 353
Burkhard, P., W. Lüthy and T. Gerber, Properties of the UV TlBr photodissociation-laser 34 (1980) 451
Burkhard, P., see T. Gerber 35 (1980) 242
Burkhard, P., see W. Lüthy 38 (1981) 413
Burlamacchi, P. and H.F. Ranea Sandoval, Characteristics of a multicolor dye laser 31 (1979) 185
Burlamacchi, P., see R. Salimbeni 39 (1981) 75
Burlamacchi, P., see R. Buffa 40 (1982) 288
Burrus, C.A., A.G. Dentai and T.P. Lee, Large-area back-illuminated InGaAs/InP photodiodes for use at 1 to 1.6 μm wavelength 38 (1981) 124
Burt, J.A., K.J. Ebeling and D. Efthimiades, Observation of the optoacoustic effect in an optical fibre 32 (1980) 59
Busch, J.R., see C.M. Verber 34 (1980) 32
Büsener, H., see M. Brieger 38 (1981) 423
Busse, G., Photothermal transmission imaging and microscopy 36 (1981) 439
Byer, R.L., see Y.K. Park 37 (1981) 411

Cady, F.M., see R.H.T. Bates 32 (1980) 365
Cagnac, B., see F. Trehin 31 (1979) 76
Cahen, D., Photoacoustic figure of merit for photothermal energy conversion efficiency 39 (1981) 243
Cahuzac, Ph., H. Sontag and P.E. Toschek, Visible superfluorescence from atomic europium 31 (1979) 37
Cahuzac, Ph. and R. Damaschini, Pressure broadening studies on the $3^3D_1 - 2^3P_0$ helium line by saturated-absorption techniques 32 (1980) 251
Cahuzac, Ph., see G. Brechignac 35 (1980) 87
Caimi, F., see D. Psaltis 36 (1981) 178
Camparo, J., see J. Liran 31 (1979) 169

Campgana, M., see P.S. Bechthold 36 (1981) 369, 373
Cancellieri, G., Exact evaluation of time dispersion in double-α profiles fibres 40 (1981) 117
Cantrell, C.D., see A.A. Makarov 31 (1979) 31
Cantrell, C.D., F. Rebenstrost and W.H. Louisell, Coherent generation of sidebands by multi-level systems as the result of propagation 36 (1981) 303
Cantrell, C.D., G.L. Peterson and D.R. Adams, Nonperturbative quantum calculation of the index of refraction of multilevel systems 40 (1982) 413
Capozzi, V., J.L. Staehli and M. Guzzi, A simple apparatus for the direct measurement of optical gain spectra 38 (1981) 284
Cardimona, D.A., see C.R. Stroud Jr. 37 (1981) 221
Carlson, N.W., D.J. Jackson, A.L. Schawlow, M. Gross and S. Haroche, Superradiance triggering spectroscopy 32 (1980) 350
Carmichael, H.J. and G.P. Agrawal, Steady-state formulation of optical bistability for a Doppler-broadened medium in a Fabry-Perot 34 (1980) 293
Carmichael, H.J., see R.R. Snapp 40 (1981) 68
Carre, M., see M. Larzilliere 37 (1981) 27
Carter, P.D., S.M.L. Sim and E.R. Wooding, Mechanisms for three-halves harmonic emission from laser-produced plasma 32 (1980) 443
Carter, W.H., see E. Wolf 40 (1982) 397
Casagrande, F., L.A. Lugiato and M.L. Asquini, Instabilities for a coherently driven absorber in a Fabry-Perot cavity 32 (1980) 492
Casagrande, F., see R. Bonifacio 36 (1981) 159
Casagrande, F., see R. Bonifacio 40 (1982) 219
Casasent, D., see S. Natu 31 (1979) 135
Casasent, D., see B.V.K. Vijaya Kumar 34 (1980) 4
Casasent, D., see M. Shen 34 (1980) 311, 316
Casati, G., see R. Bonifacio 40 (1982) 219
Case, S.K. and V. Gerbig, Efficient and flexible laser beam scanners constructed from volume holograms 36 (1981) 94
Cassard, P., R.S. Taylor, P.B. Corkum and A.J. Alcock, Characteristics of p-terphenyl dye lasers pumped by high energy XeCl pulses 38 (1981) 131
Castellini, C. and J. Tredicce, Intensity distribution in the focal region of a "doughnot" mode 35 (1980) 387
Catalano, I.M. and A. Cingolani, Absolute determination of the two photon cross section in NADH 32 (1980) 156
Catalano, I.M. and A. Cingolani, Non-linear fluorescence in dye solutions induced by a low power laser 32 (1980) 159
Caulfield, H.J., Centroid detectors in metrology 36 (1981) 439
Caulfield, H.J., Partially-space-variant pattern recognition 39 (1981) 228
Caulfield, H.J., W.T. Rhodes, M.J. Foster and S. Horvitz, Optical implementation of systolic array processing 40 (1981) 86
Cervantes, M., see F.A. Hopf 36 (1981) 487
Chakraborty, A.K., see A. Ghosh 40 (1982) 329
Chakraborty, R.N., S.P. Basu and M. De, A triangular path reversing interferometer 39 (1981) 347
Chałasińska-Macukow, K. and T. Szoplik, Reconstruction of two stacked fourier holograms – experiments and results 33 (1980) 245
Chałasińska-Macukow, K., J. Słaby and T. Szoplik, Comparison of nonlinear effects in amplitude and phase holograms recorded in photographic materials 35 (1980) 332

Chałasińska-Macukow, K., see J. Duvernoy 36 (1981) 181
Chambrier, G., J.P. Goudonnet, G. Niquet, M. Pauty et P. Vernier, Mesure de l'électroréflectance des métaux au moyen de structures métal-isolant-métal (Ag-Al_2O_3-Au) 32 (1980) 105
Chandra, S. and A. Compaan, Double-frequency dye lasers with a continuously variable power ratio 31 (1979) 73
Chao, T.H., see F.T.S. Yu 32 (1980) 225
Chao, T.H., see F.T.S. Yu 34 (1980) 11
Chapliev, M.I., see I. Ursu 35 (1980) 96
Chapovsky, P.L., A.M. Shalagin, V.N. Panfilov and V.P. Strunin, Light-induced drift of CH_3F molecules 40 (1981) 129
Chardon, D., see S. Huard 39 (1981) 59
Charnley, S.B., see J.P. Nicholson 40 (1982) 283
Chatzipetros, J., see P.S. Bechthold 36 (1981) 369
Chave, A., see J. Berrue 31 (1979) 317
Chekalyuk, A.M., V.V. Fadeev, G.M. Georgiev and Zh.S. Nickolov, Application of laser induced saturation of molecular fluorescence for lifetime measurements 38 (1981) 177
Chemla, D.S., L. Beyes and P. Hillaire, Non linear optical properties of lithium hydrogen phosphite 32 (1980) 187
Chen, C.H., D.W. Clark, M.G. Payne and S.D. Kramer, Determination of dissociative limit of NO_2 and characteristics of a molecular beam by fluorescence excitation spectra 32 (1980) 391
Chen, H. and M. Kujawinska, Astigmatic technique in one step rainbow holography 40 (1982) 169
Chernyak, V.Y., see V.M. Agranovich 37 (1981) 363
Cheron, B., see G. Cremer 40 (1981) 125
Chichester, R.J., see E.D. Shaw 33 (1980) 221
Chin, S.L., D.K. Evans, R.D. McAlpine, F.K. McClusky and E.B. Selkirk, Multi-photon absorption of intense HF laser radiation by methanol 31 (1979) 235
Chinn, S.R., Effects of narrow-free-spectral-range etalons of mode-locked lasers 31 (1979) 359
Chinn, S.R. and R.J. Spiers, TE modes of graded-index large-optical-cavity waveguides 40 (1982) 179
Chişleag, R., P. Suciu, I. Cucurezeanu and V. Primejdie, On using lens-assisted hologram interferometry to investigate semiconductor device behaviour 39 (1981) 351
Chiu, L.C., see T.L. Koch 40 (1982) 364
Cho, Y., see T. Kurobori 40 (1981) 156
Choji, K., see T. Yatagai 38 (1981) 162
Chopra, S., see H. Bohidar 36 (1981) 46
Chopra, S., see H. Bohidar 38 (1981) 52
Christensen, R., see J. Reintjes 39 (1981) 334
Christou, J., Imaging of star clusters from speckle interferometry 37 (1981) 331
Christov, B., see R. König 32 (1980) 301
Chung, H.K., J.B. Lee and T.A. DeTemple, Lethargic gain 39 (1981) 105
Churassy, S., see J.P. Pique 36 (1981) 354
Ciddor, P.F. and N. Brown, Hyperfine spectra in iodine-129 at 612 nm 34 (1980) 53
Ciliberto, S., see F.T. Arecchi 31 (1979) 263
Cingolani, A., M. Ferrara and M. Lugarà, Stimulated emission and E-H plasma in gallium selenide 32 (1980) 109
Cingolani, A., see I.M. Catalano 32 (1980) 156, 159
Cingolani, A., M. Ferrara and M. Lugarà, Stimulated emission processes in highly excited CdS at 80 K 34 (1980) 86

Clairon, A., A. van Lerberghe, C. Salomon, M. Ouhayoun and C.J. Bordé, Towards a new absolute frequency reference grid in the 28 THz range 35 (1980) 368
Clark, D.W., see C.H. Chen 32 (1980) 391
Cleschinsky, D., D. Dammasch, H.J. Eichler and J. Hamisch, CeF-laser with longitudinal discharge excitation 39 (1981) 79
Code, R.F., see I.C. Khoo 32 (1980) 145, 191
Cole, A.J., J. Murdoch, S.M.L. Sim and R.G. Evans, Time-resolved studies of back-scattered light from a plasma generated by a 0.52 μm laser 36 (1981) 51
Coleman, P.E., D. Kagan and P.L. Knight, Interpretation of sub-natural linewidths in pulsed-excitation laser spectroscopy 36 (1981) 127
Colles, B., see R.A. Wood 33 (1980) 89
Collett, E. and E. Wolf, Beams generated by gaussian quasi-homogeneous sources 32 (1980) 27
Collett, E., see J.D. Farina 32 (1980) 203
Collins, G.J., see D.C. Gerstenberger 31 (1979) 28
Compaan, A., see S. Chandra 31 (1979) 73
Conturie, Y., see B. Yaakobi 38 (1981) 196
Conturie, Y., see B. Yaakobi 39 (1981) 175
Cook, R.J. Anomalous resonance-radiation pressure on an inverted atomic transition 32 (1980) 235
Cook, R.J., Photon statistics in resonance fluorescence from laser deflection of an atomic beam 35 (1980) 347
Cook, R., see J.M. Herbelin 36 (1981) 475
Cooper, J., see R.J. Ballagh 37 (1981) 143
Corbalán, R., G. Orriols, L. Roso, R. Vilaseca and E. Arimondo, New phenomena in Doppleron resonances 38 (1981) 113
Corbalán, R., G. Orriols, L. Roso, R. Vilaseca and E. Arimondo, Saturation by a standing wave laser of a doppler-broadened three-level system: narrow resonance due to stationary molecules 40 (1981) 29
Corkum, P.B., see C. Joshi 36 (1981) 82
Corkum, P.B., see P. Cassard 38 (1981) 127
Corney, A., J. Manners and C.E. Webb, A narrow bandwidth, pulsed, ultra-violet dye laser 31 (1979) 354
Cotter, D., Tunable narrow-band coherent VUV source for the Lyman-alpha region 31 (1979) 397
Cotter, D., see R. Wyatt 32 (1980) 481
Cotter, D., see W. Zapka 36 (1981) 79
Cotter, D., see R. Wyatt 37 (1981) 421
Couillaud, B., L.A. Bloomfield, J.E. Lawler, A. Siegel and T.W. Hänsch, Saturation spectroscopy of ultraviolet transitions in mercury with a frequency-doubled CW ring dye laser 35 (1980) 359
Couillaud, B., see T.W. Hänsch 35 (1980) 441
Courjon, D. and J. Bulabois, Optical processing using a peculiar extended incoherent source 31 (1979) 270
Cox, D.M. and A. Kaldor, The fluorescence and IR energy deposition from CO_2 laser irradiation of SF_6-H_2 mixtures 31 (1979) 153
Craxton, R.S., see W. Seka 34 (1980) 469
Craxton, R.S. Theory of high efficiency third harmonic generation of high power Nd-glass laser radiation 34 (1980) 474
Craxton, R.S., see B. Yaakobi 39 (1981) 175
Craxton, R.S., see W. Seka 40 (1982) 437

Cremer, G. and B. Cheron, Population transfer cross sections in Hg–Cd and Hg–Zn collisions 40 (1981) 125
Croce, P. et L. Prod'homme, Analyse des surface polies par la distribution spatiale de la lumière diffusée 35 (1980) 20
Cross, J.B., see C.M. Miller 40 (1982) 271
Cross, K.J., see J.C.D. Brand 37 (1981) 178
Crubellier, A., S. Liberman and P. Pillet, Superradiance and subradiance in three-level systems 33 (1980) 143
Cubeddu, R., see A. Andreoni 33 (1980) 277
Cubeddu, R., S. de Silvestri and O. Svelto, Subnanosecond amplified spontaneous emission pulses by a nitrogen pumped dye laser 34 (1980) 460
Cucurezeanu, J., see R. Chişleag 39 (1981) 351
Cummings, J.C. and D.P. Aeschliman, Raman spectroscopy of atomic fluorine 31 (1979) 165
Cummings, J.C., HF-laser performance of CO_2-laser-ignited mixture of $SF_6 : H_2$ and of $S_2F_{10} : H_2$ 35 (1980) 399
Cun-Xiu, G., see Z. Hong-Jun 38 (1981) 21

Dabkiewicz, Ph. and T.W. Hansch, Polarization intermodulated excitation (POLINEX) spectroscopy of the CuI 578.2 nm transition 38 (1981) 351
Dagenais, M., see R. Yen 31 (1979) 334
Dahan, M., see G. Koren 38 (1981) 265
Daino, B., G. de Marchis and S. Piazzolla, Modal noise in optical fibers in the presence of model correlation 38 (1981) 340
Dainty, J.C., see A.H. Greenaway 35 (1980) 307
Dalby, F.W. and J.H. Sanders, Multi-photon absorption in mercury 37 (1981) 261
Damaschini, R., see Ph. Cahuzac 32 (1980) 251
Damaschini, R., Grid spectrometer for visible and ultra-violet range 36 (1981) 351
Dammasch, D., see D. Cleschinsky 39 (1981) 79
Danet, B., see D. Lefkopoulos 40 (1982) 243
Dangoisse, D. and P. Glorieux, Autler-Townes effect in a submm laser interacting with a radiofrequence field 32 (1980) 246
Danon, J., see H. Zacharias 37 (1981) 15
Darmanyan, S.A., see V.M. Agranovich 33 (1980) 234
Da Silva, E., see H. Surbeck 38 (1981) 57
Dattoli, G., A. Renieri, F. Romanelli and R. Bonifacio, On the coherent states of a free electron laser 34 (1980) 240
Dattoli, G., A. Renieri and F. Romanelli, More about the FEL coherence properties 35 (1980) 245
Dattoli, G., A. Marino and A. Renieri, A multimode small signal analysis of the single pass free electron laser 35 (1980) 407
Dattoli, G. and A. Renieri, The quantum and classical aspects of the free electron laser theory 39 (1981) 328
David, D., J. Hamel et J.-P. Barrat, Durée de vie et facteur de Landé du niveau $(5s5p^2)^4P_{1/2}$ de l'ion étain Sn^+ 32 (1980) 241
Davis, B.W., A. Vass, C.R. Pidgeon and G.R. Allan, New FIR laser lines from an optically pumped far-infrared laser with isotopic $^{13}C^{16}O_2$ pumping 37 (1981) 303
Davis, C.C., see S.J. Petuchowski 38 (1981) 26
De, M., see R.N. Chakraborty 39 (1981) 347
Deacon, D.A.G., K.E. Robinson, J.M.J. Madey, C. Bazin, M. Billardon, P. Elleaume, Y.

Farge, J.M. Ortega, Y. Petroff and M.F. Velghe, Gain measurements versus theory for the ACO storage ring laser 40 (1982) 373
Debarre, A., see G. Brechignac 35 (1980) 87
De Bisschop, P., see G. Borghs 38 (1981) 101
Deckman, H., see B. Yaakobi 34 (1980) 213
Decroisette, M., see J. Launspach 38 (1981) 407
Deffontaine, A., see H. Surbeck 38 (1981) 57
Deka, B.K., P.E. Dyer and I.K. Perera, High energy density NH_3 laser using an unstable resonator CO_2 laser pump 32 (1980) 295
Deka, B.K., P.E. Dyer and R.J. Winfield, Optically pumped NH_3 laser using a continuously tunable CO_2 laser 33 (1980) 206
Deka, B.K., P.E. Dyer and I.K. Perera, Subnanosecond mid-infrared laser pulse generation by synchronous mode-locked CO_2 laser pumping 37 (1981) 127
Deka, B.K., P.E. Dyer and R.J. Winfield, Single mode operation of continuously tunable TE CO_2 laser using a three mirror resonator 39 (1981) 255
Delettrez, J., see B. Yaakobi 34 (1980) 213
Delettrez, J., see B. Yaakobi 38 (1981) 196
Delettrez, J., see B. Yaakobi 39 (1981) 175
Delettrez, J., see W. Seka 40 (1982) 437
Delisle, C., see S.C. Som 32 (1980) 370
Delone, G.A., C.A. Grinchuk, S.D. Kuzmichev, M.L. Nagaeva, A.P. Kazantsev and G.I. Surdutovisch, The Kapitsa-Dirac resonance effect 33 (1980) 149
Delone, N.B., D.T. Alimov, P.K. Khabibulayev, M.A. Tursunov and M.A. Preobrazhensky, Three-photon ionization of the potassium atom by linearly and circularly polarized light 36 (1981) 459
Delone, N.B. and V.P. Krainov, Tunnel ionization of highly-excited hydrogenic atoms in a variable field 40 (1982) 205
Delone, N.B., I.I. Bondar, V.V. Suran and B.A. Zon, Dependence of the process of nonlinear two-electron ionization of the barium atom on the polarization of the laser radiation 40 (1982) 268
Delsart, C., J.-C. Keller and V.P. Kaftandjian, Experimental evidence for light-shift induced zero-field level crossing ("optical Hanle effect") 32 (1980) 406
De Marchis, G., see S. Piazzolla 32 (1980) 380
De Marchis, G., see B. Daino 38 (1981) 340
De Martini, F., see C.H. Brito Cruz 39 (1981) 331, 339
De Martini, F., see C.H. Brito Cruz 40 (1982) 298
Dembinski, M. and P.K. John, Power enhancement of a ruby laser by an intracavity plasma 32 (1980) 317
Dembinski, M., see P.K. John 33 (1980) 213
Dempsey, J., see G. McClelland 31 (1979) 85
Demtröder, W., see A. Fischer 39 (1981) 277
Demtröder, W., see K. Wickert 40 (1982) 337
Denis, M. and H.H. Arsenault, On the accuracy of a method to make film-grain noise independent of the signal 38 (1981) 166
Denisov, V.N., B.N. Mavrin, V.B. Podobedov and Kh.E. Sterin, Two-phonon hyper-Raman scattering and polariton spectra in rutile crystal 34 (1980) 357
Dennis, R.B., see H.A. MacKenzie 34 (1980) 205
Dentai, A.G., see C.A. Burrus 38 (1981) 124

Dentcheval, M. and J. Georgieva, A possibility for extending the limits of measurable displacements by double exposure speckle photography 40 (1982) 322
Depannemaeker, J.C., see M. Lyszyk 37 (1981) 53
Desaintfuscein, M., see F. Plumelle 34 (1980) 71
De Silvestri, S., see A. Andreoni 33 (1980) 277
De Silvestri, S., see R. Cubeddu 34 (1980) 460
De Silvestri, S., F. Docchio, L. Laporta, A. Longoni and F. Zaraga, Dual time scale measurements of the multiexponential fluoresence decay of quinacrine mustard 37 (1981) 20
Deslattes, R.E., see B. Yaakobi 38 (1981) 196
DeTemple, T.A., see H.K. Cheung 39 (1981) 105
Devaney, A.J., Quasi-plane waves and their use in radiation and scattering problems 35 (1980) 1
Diels, J.-C., J. Stone, S. Besnainou, M.F. Goodman and E. Thiele, Probing the phase coherence time of multiphoton excited molecules 37 (1981) 11
Dietel, W., E. Döpel and D. Kühlke, Passive model-locking of an Ar^+-laser with rhodamine 6G as saturable absorber and double mode-locking of the pump- and dye laser system 35 (1980) 445
Di Lieto, A., P. Minguzzi and M. Tonelli, Sub-doppler optoacoustic spectroscopy 31 (1979) 25
Dinescu, M., see I. Ursu 35 (1980) 96
Dinev, S.G., I.G. Koprinkov, K.V. Stamenov, K.A. Stankov and C. Radzewicz, Two-wavelength single mode grazing incidence dye laser 32 (1980) 313
Dinev, S.G., I.G. Koprinkov, K.V. Stamenov and K.A. Stankov, A narrowband unidirectional pulsed ring dye laser 35 (1980) 403
Ding, K., see W. Kranitzky 34 (1980) 483
Djotyan, G.P., see V.M. Arutunyan 36 (1981) 227
Docchio, F., see S. de Silvestri 37 (1981) 20
Dokjikov, V.S., see V.N. Bagratashvili 38 (1981) 31
Donaldson, T.P., J.E. Balmer and P. Wägli, Energy loss to resonantly accelerated ions in laser-plasma 31 (1979) 61
Döpel, E., see W. Dietel 35 (1980) 445
Doukas, A.F., see D.L. Rosen 35 (1980) 125
Downie, C., see D.A. Hutchinson 40 (1982) 391
Drexhage, K.H., see B. Kopainsky 32 (1980) 451
Drexhage, K.H., see W. Kranitzky 36 (1981) 149
Drouin, M., see S.C. Som 32 (1980) 370
Drühl, K., M.O. Scully and A.W. Overhauser, Gain switching in high power lasers 38 (1981) 393
Drullinger, R.E., Increased gain through identification and alleviation of dye self absorption in laser pumped dye lasers 39 (1981) 263
Drummond, P.D., see F.A. Hopf 31 (1979) 245
Drummond, P.D., see M.J. Konopnicki 36 (1981) 313
Drummond, P.D., Adiabatic results for populations in optical bistability 40 (1982) 244
D'Silva, A.P., see M.K. Iles 35 (1980) 133
Duarte, F.J. and J.A. Piper, A double-prism beam expander for pulsed dye lasers 35 (1980) 100
Ducasse, A., see B. Pouligny 37 (1981) 271
Duchene, J.L., see F. Plumelle 34 (1980) 71
Ducloy, M., see D. Bloch 37 (1981) 183
Duley, W.W., see W.A. Young 31 (1979) 157
Duley, W.W., see W.A. Young 34 (1980) 353
Duley, W.W., see A.S. Nagvi 37 (1981) 356

Duley, W.W., see D.M. Bruce 40 (1982) 347
Dullforce, T.A. and R.E. Faw, High-speed cine recording of real-time holographic interference fringes 31 (1979) 111
Dumant, J.M., Y. Guillausseau and M. Monerie, Small signal modulation of DH laser diodes; effect of the junction capacitance 33 (1980) 188
Dumon, B., see J. Berrue 31 (1979) 317
Duncan, C., A. Raven and P.T. Rumsby, Zone plate coded radiography of laser driven ablative implosions 35 (1980) 384
Duncan, C., see O. Willi 37 (1981) 40
Dunlavy, D., see R.K. Ahrenkiel 32 (1980) 503
Dunn, M.H., see S.J. Bastow 35 (1980) 259
Dunn, M.H., see C.E. Wagstaff 35 (1980) 353
Dupont-Pavlovsky, N., see F. Vergnes 32 (1980) 5
Dürr, U., see W. Künzel 36 (1981) 383
Duvernoy, J. and J. Leger, Karhunen-Loeve analysis of multispectral data from landscapes 32 (1980) 39
Duvernoy, J. and K. Chałasińska-Macukow, Analyse directionelle dans les spectres de Fourier par filtrage de Wiener 36 (1981) 181
Duvernoy, J., see B. Guillame 36 (1981) 273
Duvernoy, J., see B. Guillame 39 (1981) 118
Dyer, P.E., see O.L. Bourne 31 (1979) 193
Dyer, P.E., see B.K. Deka 33 (1980) 206
Dyer, P.E., see B.K. Deka 37 (1981) 127
Dyer, P.E., see B.K. Deka 39 (1981) 255
Dymek, M.S., see F.T.S. Yu 32 (1980) 225

Eason, R.W., R.C. Greenhow, D.M. Goodall and J.F. Holzwarth, Ground state repopulation time and saturation behaviour of BDN II in tetrahydrothiophene-1,1-dioxide 32 (1980) 113
Ebeling, K.J., see J.A. Burt 32 (1980) 59
Ebeling, K.J., K-distributed spatial intensity derivatives in monochromatic speckle patterns 35 (1980) 323
Eberly, J.H., M.J. Konopnicki and B.W. Shore, The influence of propagation on off-resonant excitation of a model molecule 35 (1980) 76
Eberly, J.H., see M.J. Konopnicki 36 (1981) 313
Ebert, R., see H. Pascher 32 (1980) 151
Eckberth, A.C., see R.J. Hall 35 (1980) 69
Eden, J.G., see A.W. McCown 40 (1982) 190
Ediger, M.N., see A.W. McCown 40 (1981) 100
Edwards, C.B., see M.C. Gower 40 (1982) 369
Efthimiades, D., see J.A. Burt 32 (1980) 59
Egbert, W.C., see L.A. Godfrey 34 (1980) 108
Eggett, P., see S.K. Bhattacharyya 39 (1981) 387
Ehlotzky, F., Comment on the space translation method at high laser field intensities 40 (1981) 135
Eichhorn, A., M. Elbel, W. Kamke and J.C. Amaré, Collinear laser spectroscopy at ionic beams of argon and chlorine 31 (1979) 306
Eichler, H.J., H. Koch, J. Salk and Ch. Skrobol, U.V.-Cu II laser with cylindrical hollow cathodes 34 (1980) 228
Eichler, H.J., see D. Cleschinsky 39 (1981) 79

Eichler, H.J., F. Massmann and Ch. Zaki, Modulation and compression of Nd : YAG laser pulses by self-tuning of a silicon cavity 40 (1982) 302
Elbel, M., see A. Eichhorn 31 (1979) 306
Elgin, J.N., A study of the gain mechanism in free electron laser systems 36 (1981) 229
Elgin, J.N., see Li Fu-Li 40 (1982) 446
Eliel, E.R., W. Hogervorst, K.A.H. van Leeuwen and B.H. Post, A frequency-doubled frequency-stabilized CW ring dye laser for spectroscopy: a study of the $\lambda = 293.3$ nm transition in In I 36 (1981) 366
Eliel, E.R., W. Hogervorst, K.A.H. van Leeuwen and B.H. Post, Ultraviolet transitions in europium studied with a frequency-doubled CW ring dye laser 39 (1981) 41
Elleaume, P., see D.A.C. Deacon 40 (1982) 373
Encrenaz, P., see L. Moi 33 (1980) 47
Endo, T., see S. Nakanishi 38 (1981) 419
Endo, T., see T. Muramoto 36 (1981) 409
Endo, T., S. Nakanishi, T. Muramoto and T. Hashi, Oscillatory optical free induction decay and photon echoes 37 (1981) 369
Eng, S.T., see T. Andersson 38 (1981) 170
Ennos, A.E., Comparative accuracy of holographic interferometry and speckle photography for out-of-plane deformation measurement 33 (1980) 9
Era, K., see F. Minami 35 (1980) 393
Erez, G., see J. Tenenbaum 32 (1980) 473
Erez, G., see J. Tenenbaum 36 (1981) 391
Erez, G., see R. Shuker 39 (1981) 51
Erko, A.I., see V. V. Aristov 34 (1980) 332
Ernst, G.J. and A.G. Boer, A 5 cm single-discharge CO_2 laser having high power output 34 (1980) 221
Ernst, G.J. and A.G. Boer, Experimental determination of the electron-avalanche and the electron-ion recombination coefficient 34 (1980) 235
Ernst, G.J. and A.G. Boer, Kinetic modelling of a self-sustained TEA CO_2 laser 35 (1980) 249
Ernsting, N.P., see J.C.D. Brand 37 (1981) 178
Etchepare, J., G. Grillon, R. Muller and A. Orszag, Kinetics of optical Kerr effect induced by picosecond laser pulses 34 (1980) 269
Evans, D.K., see S.L. Chin 31 (1979) 235
Evans, R.G., see A.J. Cole 36 (1981) 51
Even, U., see A. Amirav 32 (1980) 266
Ewart, P., A.I. Ferguson and S.V. O'Leary, Degenerate four-wave mixing in excited states formed by collision assisted transitions 40 (1981) 147
Ezekiel, S., see P.R. Hemmer 38 (1981) 105

Fabre, C., see L. Moi 33 (1980) 47
Fadeev, V.V., see A.M. Chekalyuk 38 (1981) 177
Fantoni, R., see E. Borsella 39 (1981) 365
Farge, Y., see D.A.C. Deacon 40 (1982) 373
Farina, J.D., see R. Bonifacio 31 (1979) 377
Farina, J.D., L.M. Narducci and E. Collett, Generation of highly directional beams from a globally incoherent source 32 (1980) 203
Farina, J.D., see L.A. Lugiato 39 (1981) 405
Fassel, V.A., see M.K. Iles 35 (1980) 133
Fatayev, N.V., see I.M. Beterov 40 (1982) 425

Faw, R.E., see T.A. Dullforce 31 (1979) 111
Fedorov, M.V. and J.K. McIver, Multiphoton stimulated Compton scattering 32 (1980) 179
Fedosejevs, R., W. Tighe, D.C.D. McKen and A.A. Offenberger, Stimulated backscattering from long plasma columns 40 (1981) 35
Felton, R.C., see B.R. Marx 33 (1980) 287
Feng, B., see M. Shen 34 (1980) 311, 316
Fercher, A.F., Velocity measurement by first order statistics of time-differentiated laser speckles 33 (1980) 129
Fercher, A.F. and J.D. Briers, Flow visualization by means of single-exposure speckle photography 37 (1981) 326
Ferguson, A.I., Improved performance of blue synchronously pumped dye lasers by operating at an increased repetition rate 38 (1981) 387
Ferguson, A.I., see P. Ewart 40 (1981) 147
Fern, R.E., see P.D. Perry 37 (1981) 1
Ferrano, G. and G. Häusler, A bistable TV-optical feedback system 32 (1980) 375
Ferrano, G. and H. Maitre, TV-optical iterative picture restoration: experimental results 38 (1981) 336
Ferrara, M., see A. Cingolani 32 (1980) 109
Ferrara, M., see A. Cingolani 34 (1980) 86
Ferrière, R., J.-P. Goedgebuer and J.-C. Viénot, Fourier holograms recorded and decoded in polychromatic light 31 (1979) 285
Ficek, Z., R. Tanaś and S. Kielich, Resonance fluorescence spectrum of two atoms, coherently driven by a strong resonant laser field 36 (1981) 121
Fiddy, M.A., see M. Nieto-Vesperinas 36 (1981) 169
Figger, H., G. Leuchs, R. Straubinger and H. Walther, A proton detector for submillimetre wavelengths using Rydberg atoms 33 (1980) 37
Fill, E., see W. Thieme 36 (1981) 361
Fill, E., E. Gerck and M. Irion, Atomic mercury photodissociation laser in the visible 37 (1981) 289
Fill, E.E., Generation of higher harmonics of iodide laser radiation 33 (1980) 321
Fill, E.E., W. Skrlac and K.J. Witte, An excimer laser pumped atomic iodine laser emitting pulses in the range of 2–12 ns 37 (1981) 123
Firth, W.J., see R.A. Wood 35 (1980) 105
Firth, W.J., see J. Białas 36 (1981) 317
Firth, W.J., Stability of nonlinear Fabry-Perot resonators 39 (1981) 343
Firth, W.J. and E.M. Wright, Theory of gaussian-beam optical bistability 40 (1982) 233
Firth, W.J., see E.M. Wright 40 (1982) 410
Fischer, A., R. Kullmer and W. Demtröder, Computer controlled Fabry-Perot wavemeter 39 (1981) 277
Fleming, G.R., see D.B. McDonald 34 (1980) 127
Fleuret, J. and P. Gravey, Proposals for logical optical operators 36 (1981) 5
Fleury, J., see F. Herlemont 37 (1981) 403
Flusberg, A., Phenomenological model of spontaneous Raman scattering 38 (1981) 235
Flusberg, A., Stimulated Raman scattering in the presence of strong dispersion 38 (1981) 427
Flytzanis, C., see G.P. Agrawal 38 (1981) 216
Földes, I.B., see J.S. Bakos 37 (1981) 408
Folin, A.K., K.G. Folin, A.V. Ghiner and K.P. Komarev, Light-induced changes of thermodynamic state of gas 36 (1981) 462
Folin, K.G. and K.P. Komarov, Light-induced stationary gas flow 35 (1980) 351
Folin, K.G., see A.K. Folin 36 (1981) 462
Forshaw, M.R.B., see K. Bazargan 32 (1980) 45

Forsyth, J.M., see B. Yaakobi 38 (1981) 196
Forsyth, J.M., see B. Yaakobi 39 (1981) 175
Foster, M.J., see H.J. Caulfield 40 (1981) 86
Foth, H.J., see M. Gläser 38 (1981) 119
Fourrier, M., see M. Redon 34 (1980) 455
Fragnito, H.L., see C.H. Brito Cruz 40 (1982) 298
Francini, F. and G. Longobardi, Apparatus for measuring the size distribution of small particles 33 (1980) 1
Frankel, R.D., see B. Yaakobi 38 (1981) 196
Frankel, R.D., see B. Yaakobi 39 (1981) 175
Freeman, R.R., see G.C. Bjorklund 31 (1979) 47
Freeman, R.R., see P.F. Liao 34 (1980) 195
Freiberg, A., see P. Saari 39 (1981) 94
Freund, I., see S. Roth 33 (1980) 292
Friedman, H. and V. Ahiman, Transition from Bloch equations to rate equations for multiple photon excitation of polyatomic molecules 33 (1980) 163
Frölich, D., see H. Schlemmer 32 (1980) 141
Fu-Cheng, L., see K. Gnädig 34 (1980) 218
Fu-Cheng, L., Laser action in a lead hollow cathode discharge and its excitation mechanism 36 (1981) 387
Fuh, Y.G., see I.C. Khoo 32 (1980) 191
Fujii, H. and Y. Ohtsuka, Rotational filtering for randomly oriented pattern recognition 36 (1981) 255
Fujii, Y., H. Takimoto and T. Igarashi, Optimum resolution of laser microscope by using optical heterodyne detection 38 (1981) 85
Fujimoto, T., C. Goto and K. Fukeda, Measurements of lifetime and atomic-collision cross sections for depopulation and for disalignment of neon $2p_2$ level 40 (1981) 23
Fujioka, T., see M. Midorikawa 32 (1980) 447
Fujita, M., see H. Nakatsuka 36 (1981) 234
Fujita, S., see T. Yoshida 40 (1981) 45
Fukuda, K., see T. Fujimoto 40 (1981) 23
Fukuda, Y., see T. Minemoto 36 (1981) 111
Fukuda, Y., see H. Itoh 36 (1981) 131
Fukuda, Y., K. Yamada and T. Hashi, A new echo phenomenon in laser induced population grating in gases – LIPG echo 37 (1981) 299
Fukuda, Y., J. Hayashi, K. Kondo and T. Hashi, Synchronized quantum beam spectroscopy using periodic impact excitations with cw mode-locked laser pulses 38 (1981) 357
Furuse, T. and I. Sakuma, Internal second harmonic generation in InGaAsP DH lasers 35 (1980) 413

Gabay, S., see J. Tenenbaum 32 (1980) 473
Gabel, C.W., see G.T. Harvey 36 (1981) 213
Gadomski, W. and M. Roman, Influence of a dc electric field on the polarization of an intense laser beam in liquids 33 (1980) 331
Gaggioli, N.G. et M.L. Roblin, Etudes des états de surface par les proprietés de diffusion à l'infini en lumière transmise 32 (1980) 209
Gaida, G., see V.M. Baev 38 (1981) 309
Gaillard, M.L., see M. Larzilliere 37 (1981) 27
Galanti, M., see K.J. Witte 34 (1980) 278
Ganas, P.S., Optical oscillator strengths for silicon 36 (1981) 193

Gaponov, S.V., S.A. Gusev, B.M. Luskin, N.N. Salashchenko and E.S. Gluskin, Long-wave X-ray radiation mirrors 38 (1981) 7
Garavaglia, M., see H.J. Rabal 34 (1980) 7
Garavaglia, M., see N. Bolognini 34 (1980) 337
Garavaglia, M., see H.J. Rabal 39 (1980) 225
García, N., see M. Nieto-Vesperinas 32 (1980) 217
García, N., see M. Nieto-Vesperinas 35 (1980) 25
García-Fernández, P., M. Santos, D. García-Puente and P.F. González-Díaz, Diagonal density matrix of anti-Stokes luminescence 40 (1982) 451
García-Puente, D., see P. Garcia-Fernández 40 (1982) 451
Garetz, B.A. and S. Arnold, Variable frequency shifting of circularly polarized laser radiation via a rotating half-wave retarding plate 31 (1979) 1
Garg, R.K., see M.M. Pradhan 40 (1982) 361
Garibyan, O.V., I.N. Kompanets, A.V. Parfyonov, N.F. Pilipetsky, V.V. Shkunov, A.N. Sudarkin, A.V. Sukhov, N.V. Tabiryan, A.A. Vasiliev and B.Ya. Zel'dovich, Optical phase conjugated by microwatt power of reference waves via liquid crystal light valve 38 (1981) 67
Garnero, L., see J. Brunol 35 (1980) 311
Garnett, R.W., see A. Adams 34 (1980) 417
Garslian, R., see G. Brassart 36 (1981) 477
Gastaud, C., see M. Redon 34 (1980) 455
Gavriluk, A.P. and N.Ya. Shaparev, Ionization-induced gas transparency in the resonance electromagnetic field 39 (1981) 379
Gawlik, W., see S. Nakayama 34 (1980) 382, 389
Gaylord, T.K., see M.G. Moharam 32 (1980) 14, 19
Gea, J., see F.T. Arecchi 36 (1981) 144
Geisler, M., see M. Baumann 38 (1981) 259
Gellermann, W., F. Lüty, K.P. Koch and H.Welling, Tunable laser operation of F_2^+ and $(F_2^+)_A$ centers in OH^- and SH^--doped alkali halides 35 (1980) 430
Gellermann, W., F. Lüty and C.R. Pollock, Optical properties and stable, broadly tunable cw laser operation of new F_A-type centers in Tl^+-doped alkali halides 39 (1981) 391
Gel'Mukhanov, F.Kh, see A.D. Antsigin 32 (1980) 237
Georges, A.T., Intensity correlations in resonance fluorescence excited by intense incoherent fields 38 (1981) 274
Georgiev, G.M., see A.M. Chekalyuk 38 (1981) 177
Georgieva, J., see M. Dentcheva 40 (1982) 322
Gerber, T., see P. Burkhard 34 (1980) 451
Gerber, T., W. Lüthy and P. Burkhard, High efficiency KrF excimer flashlamp 35 (1980) 242
Gerber, T., see W. Lüthy 38 (1981) 413
Gerbig, V., Computer-interferometric holograms used for laser beam scanners 36 (1981) 90
Gerbig, V., see S.K. Case 36 (1981) 94
Gerck, E., see E. Fill 37 (1981) 289
Gerhardt, H., see D.J. Jackson 37 (1981) 23
Gerstenberger, D.C., E.L. Latush and G.J. Collins, Doppler-free laser spectroscopy of atomic copper in a hollow cathode discharge 31 (1979) 28
Gerstenkorn, S. and P. Luc, The iodine absorption spectrum around 5915 Å. Calibration and assignments 36 (1981) 322
Gex, J.P., see J. Brunol 31 (1979) 129
Gex, J.P., see P. Valat 36 (1981) 378

Ghatak, A.K., see A. Sharma 34 (1980) 39
Ghatak, A.K., see A. Sharma 36 (1981) 22
Ghatak, A.K., see K. Thyagarajan 39 (1981) 26
Ghiner, A.V., see A.K. Folin 36 (1981) 462
Ghosh, A. and A.K. Chakraborty, High frequency enhancement using a birefrigent lens 40 (1982) 329
Giacobino, E., see G. Grunberg 36 (1981) 403
Giammanco, F., see A. Giulietti 33 (1980) 257
Gibbs, H.M., see S.L. McCall 33 (1980) 335
Giglio, M., S. Musazzi and U. Perini, A white light speckle Schlieren technique 36 (1981) 117
Gillman, G., Interferometer focussing accuracy and the effect on interferograms for density measurements of laser produced plasmas 35 (1980) 127
Gillman, G., Interpretational problems of interferograms of asymmetric laser-produced plasmas 37 (1981) 113
Ginzburg, N.S., see Ya.L. Bogomolov 36 (1981) 209
Ginzburg, N.S. and M.A. Shapiro, Quasi-linear theory of multimode free-electron lasers with an inhomogeneous frequency broadening 40 (1982) 215
Ginzburg, V.M., Defocussing as a method of optical image transformation at the technical and visual inputs 36 (1981) 258
Ginzburg, V.M., Anthropological methods of optical image processing 40 (1981) 15
Giulietti, A., M. Vaselli and F. Giammanco, Shadowgraphic detection of spherical implosive shock fronts produced by laser pulses 33 (1980) 257
Glab, W. and M.H. Nayfeh, Measurement of the oscillator strength of the E2 transition Cs(6S–5D) 38 (1981) 262
Gladkov, S.M., see A.M. Brodnikovsky 40 (1982) 312
Gladushchak, V.I., see S.A. Batishche 38 (1981) 71
Glaser, I., Adaptive optical nonlinear image processing 40 (1982) 161
Gläser, M., D. Kegung and H.J. Foth, Hyperfine structure and fluorescence analysis of enriched $^{129}I_2$ at the 612 nm wavelength of the He-Ne laser 38 (1981) 119
Glassman, A., see G. Brink 33 (1980) 17
Glorieux, P., see D. Dangoisse 32 (1980) 246
Glorieux, P., see A. Jacques 40 (1982) 201, 455
Gluskin, E.S., see S.V. Gaponov 38 (1981) 7
Gnädig, K. and L. Fu-Cheng, A hollow cathode tin laser 34 (1980) 218
Gnädig, K., CW laser oscillation observed on visible and near-infrared PbII-transitions in a hollow cathode discharge tube 35 (1980) 427
Godfrey, L.A., W.C. Egbert and R.S. Meltzer, Grazing incidence grating techniques for flash-lamp pumped tunable dye lasers 34 (1980) 108
Goedgebuer, J.-P., see R. Ferrière 31 (1979) 285
Goela, J.S. and R.K. Thareja, Heating or cooling of gases with tunable laser radiation 40 (1982) 254
Goldman, L.M., see B. Yaakobi 38 (1981) 196
Goldman, L.M., see B. Yaakobi 39 (1981) 175
Goldman, L.M., see W. Seka 40 (1982) 437
Goldschmith, J.E.M. and A.V. Smith, Doppler-free two-photon optogalvanic spectroscopy in helium 32 (1980) 403
Gonzáles-Días, see P. Garcia-Fernández 40 (1982) 451
Goodall, D.M., see R.W. Eason 32 (1980) 113
Goodman, M.F., see J.-C. Diels 37 (1981) 11
Goodwin, M.W., see D.G. Seiler 31 (1979) 340

Gorbunov, A.A., see I. Ursu 39 (1981) 180
Gori, F., Lau effect and coherence theory 31 (1979) 4
Gori, F., Collett-Wolf sources and multimode lasers 34 (1980) 301
Gori, F., Fresnel transform and sampling theorem 39 (1981) 293
Gornik, W., see M. Rothschild 39 (1981) 316
Goto, C., see T. Fujimoto 40 (1981) 23
Götz, J. and J. Jahns, An opto-electronical nonlinear component 40 (1982) 325
Goudonnet, J.P., see G. Chambier 32 (1980) 105
Goutzoulis, A., see D. Psaltis 36 (1981) 178
Govindanunny, T. and B.M. Sivaram, Solvation effect on the tunability of a fluorescein dye laser 32 (1980) 425
Gower, M.C., KrF laser-induced breakdown of gases 36 (1981) 43
Gower, M.C. and C.B. Edwards, Gain and absorption measurements in a discharge excited KrF laser 40 (1982) 369
Goy, P., see L. Moi 33 (1980) 47
Goyal, I.C., see A. Sharma 34 (1980) 39
Gozzini, S., see M. Allegrini 36 (1981) 449
Graener, H. and A. Laubereau, Shorter and bandwidth-limited Nd : YAG laser pulses 37 (1981) 138
Graham, R., see H. Brand 32 (1980) 359
Grattan, K.T.V., M.H.R. Hutchinson and K.J. Thomas, Vibrational relaxation studies in electron-beam excited KrF 39 (1981) 303
Gravey, P., see J. Fleuret 36 (1981) 5
Green, J.M., T. Stamatakis and D.A. Aldcroft, Characteristics of the 615 cm^{-1} superfluorescent emission from CO_2 laser-pumped CF_4 39 (1981) 99
Greenaway, A.H. and C. Roddier, A 180° rotation shearing interferometer with increased optical efficiency 32 (1980) 48
Greenaway, A.H. and J.C. Dainty, The formal equivalence between autocorrelation and power spectral analysis of photon-limited data 35 (1980) 307
Greenhalgh, D.A., see R.J. Hall 40 (1982) 417
Greenhow, R.C., see R.W. Eason 32 (1980) 113
Gremaud, M., see H. Surbeck 38 (1981) 57
Gremillet, N., see J. Marcou 32 (1980) 63
Gremillet, N., G. Thomin and J. Marcou, Polarisation conversion by Bragg deflection in isotropic planar integrated optics waveguides. Part II. Experimental study 32 (1980) 69
Grethen, H., see G.W. Zhang 40 (1981) 49
Grieneisen, H.P., K. Hohla and K.L. Kompa, Formation of Xe_2^* by collision pair absorption at 158 nm 37 (1981) 97
Grignan, P., Solution of the exact time-dependent microbending equations 33 (1980) 262
Grillon, G., see J. Etchepare 34 (1980) 269
Grimbert, D., see S. Mukamel 40 (1982) 184, 421
Grinchuk, V.A., see G.A. Delone 33 (1980) 149
Gross, M., see N.W. Carlson 32 (1980) 350
Gross, M., see L. Moi 33 (1980) 47
Grousson, R. and S.G. Odoulov, Zero-frequency elimination using the filtering characteristics of a volume grating 39 (1981) 219
Grozeva, M.G., N.V. Sabotinov, P.K. Telbizov and N.K. Vuchkov, CW laser oscillation on transition of Ti^+ in a hollow-cathode Ne-Tl-halide discharge 31 (1979) 211
Grynberg, G., see F. Trehin 31 (1979) 76

Grynberg, G., E. Giacobino and F. Biraben, Two-photon optically pumped laser 36 (1981) 403
Grynberg, G., Effect of level degeneracy on pressure-induced extra resonance 38 (1981) 439
Grzegorzewski, B., Reconstruction of the object statistics from statistical parameters of speckle pattern 35 (1980) 164
Gu, Z.-H., J.R. Leger and S.H. Lee, Optical computation of cosine transforms 39 (1981) 137
Guangyin, Z., Comment on "A stable YAG resonator yielding a beam of very low divergence and high output energy" 36 (1981) 334
Guena, J., see M.A. Bouchiat 37 (1981) 265
Guerra Perez, J.M., see M. Sanchez Gomez 40 (1981) 144
Guidarelli, G., A. Palma, L. Palmieri, G. Socino and E. Verona, Swept frequency acousto-optical spectrum analyzer 39 (1981) 15
Guiliani, G. and P. Ristori, Polarization flip cavities: a new approach to laser resonators 35 (1980) 109
Guillame, B. and J. Duvernoy, Incoherent optical processing: sampling the incoherent spectrum 36 (1981) 273
Guillaume, B. and J. Duvernoy, Sampling complex-valued incoherent Fourier spectra 39 (1981) 118
Guillausseau, Y., see J.M. Dumant 33 (1980) 188
Guiraud, R., see D. Lefkopoulos 40 (1982) 243
Gupta, P.K., see K.C. Rustagi 33 (1980) 103
Gupta, P.K., see R.G. Harrison 34 (1980) 445
Gupta, R., see G. Brink 33 (1980) 17
Gürs, K., H. Hofmann and G. Schäfer, 16 μm emission from a chemical hydrogen fluoride TE laser 33 (1980) 197
Gusev, S.A., see S.V. Gaponov 38 (1981) 7
Guzzi, M., see V. Capozzi 38 (1981) 284

Haake, F., see G.S. Agarwal 34 (1980) 283
Haake, F., see G. Schröder 39 (1981) 194
Haase, E., see K. Pasedach 36 (1981) 423
Häfele, H.G., see H. Pascher 32 (1980) 151
Häfele, H.G., see W. Richter 35 (1980) 233
Hall, D.R., see G. Allcock 37 (1981) 49
Hall, R.J., J.F. Verdieck and A.C. Eckberth, Pressure-induced narrowing of the CARS spectrum of N_2 35 (1980) 69
Hall, R.J. and D.A. Greenhalgh, Application of the rotational diffusion model to gaseous N_2 CARS spectra 40 (1982) 417
Halpern, A.M., see G. Jones II 33 (1980) 315
Hamel, J., see D. David 32 (1980) 241
Hamilton, M.W., see R.J. Ballagh 37 (1981) 143
Hamisch, J., see D. Cleschinsky 39 (1981) 79
Hanes, L.K. and D.G. Seiler, CO laser-induced cooling of the conduction electrons in n-InSb 34 (1980) 89
Hanna, D.C., C.G. Sawyers and M.A. Yuratich, Large volume TEM_{00} mode operation of Nd : YAG lasers 37 (1981) 359
Hanna, D.C., see A.J. Berry 40 (1981) 54
Hänsch, T.W., see W.T. Hill III 32 (1980) 96
Hänsch, T.W., see D.J. Jackson 33 (1980) 51
Hänsch, T.W., see B. Couillaud 35 (1980) 359
Hänsch, T.W. and B. Couillaud, Laser frequency stabilization by polarization spectros-

copy of a reflecting reference cavity 35 (1980) 441
Hänsch, T.W., see D.J. Jackson 37 (1981) 23
Hänsch, T.W., D.R. Lyons, A.L. Schawlow, A. Siegel, Z.-W. Wang and G.-Y. Yan, Polarization intermodulated excitation (POLINEX) spectroscopy of helium and neon 38 (1981) 47
Hänsch, T.W., see Ph. Dabkiewicz 38 (1981) 351
Hansen, W., see J.M. Herbelin 36 (1981) 475
Hansma, P.K., see A. Adams 34 (1980) 417
Happer, W., see J. Liran 31 (1979) 169
Harde, H. and H. Burggraf, Rapid scanning autocorrelator for measurements of picosecond laser pulses 38 (1981) 211
Harde, H. and H. Burggraf, Ultrahigh-resolution coherence spectroscopy by means of periodic excitation with picosecond pulses 40 (1982) 441
Harder, C., see K.Y. Lau 36 (1981) 472
Hariharan, P., Pseudocolour images with volume reflection holograms 35 (1980) 42
Haroche, S., see N.W. Carlson 32 (1980) 350
Haroche, S., see L. Moi 33 (1980) 47
Harper, P.G., I. Mackie and S.D. Smith, The role of partial saturation of the υ_3 ladder in SF_6 adsorption under high power infrared laser excitation 32 (1980) 411
Harrison, R.G., see D.A.B. Miller 32 (1980) 478
Harrison, R.G., P.K. Gupta, A.K. Kar and M.R. Taghizadeh, A simple and efficient optically pumped NH_3 laser system 34 (1980) 445
Hartmann, F., see J.P. Pique 33 (1980) 23
Hartmann, F., see J.P. Pique 36 (1981) 354
Hartmann, S.R., see R. Kachru 31 (1979) 223
Harvey, G.T., C.W. Gabel and G. Mourou, Synchronization of a mode-locked Nd:YAG–argon ion laser system 36 (1981) 213
Harzer, R., see B. Burghardt 33 (1980) 169
Hasegawa, H., see K. Kondo 32 (1980) 136
Hashi, T., see S. Nakanishi 31 (1979) 344
Hashi, T., see T. Muramoto 36 (1981) 409
Hashi, T., see Y. Fukuda 37 (1981) 299
Hashi, T., see T. Endo 37 (1981) 369
Hashi, T., see Y. Fukuda 38 (1981) 357
Hashi, T., see S. Nakanishi 38 (1981) 419
Hashimoto, M., On the asymptotic eigenvalues of an inhomogeneous waveguide 32 (1980) 383
Hashimoto, M., Asymptotic eigenvalues of vector waves in an inhomogeneous circular waveguide 34 (1980) 43
Hasle, E.K., Polarization properties of He-Ne lasers 31 (1979) 206
Hassan, S.S., see E. Abraham 33 (1980) 93
Hassan, S.S., see R.R. Puri 35 (1980) 179
Hassan, S.S., see E. Abraham 35 (1980) 291
Hassan, S.S., S.P. Tewari and E. Abraham, Standing wave treatment applied to 3-level bistable system 40 (1982) 461
Hauchecorne, G. and G. Mayer, Photoionization experiments in dense argon gas 38 (1981) 185
Haug, H., see R. Neumann 31 (1979) 267
Häusler, G., see G. Ferrano 32 (1980) 375
Hayakawa, M., see H. Itoh 36 (1981) 131
Hayashi, J., see Y. Fukuda 38 (1981) 357

Hayashi, S., T. Yamada and H. Kanamori, Light scattering study of surface plasmon resonance in very thin silver films 36 (1981) 195
Heer, C.V., Intensity cross-correlation in light scattered by the rotational motion of macromolecules 38 (1981) 110
Heidemann, K.F., see H.-J. Lilienhof 35 (1980) 49
Heilweil, E.J., R.M. Hochstrasser and H. Souma, Applications of the phase conjugate configuration in nonlinear spectroscopy 35 (1980) 227
Heiniger, F., see B. Schneeberger 36 (1981) 107
Heldt, J., see J.R. Heldt 39 (1981) 325
Heldt, J.R., J. Szcepański and J. Heldt, Laser emission of new phenyl-acetoxy anthracene derivatives 39 (1981) 325
Heller, Yu.I. and A.K. Popov, Laser induced narrowing and shift of autoionizing resonance in multiphoton ionization spectrum 38 (1981) 345
Helstrom, C.W., The conversion of a pure state into a statistical mixture by the linear quantum channel 37 (1981) 175
Hemmer, P.R., F.Y. Wu and S. Ezekiel, Influence of atomic recoil on power broadened lineshapes in 2-level atoms 38 (1981) 105
Hendow, S.T. and M. Sargent III, The role of population pulsations in single-mode laser instabilities 40 (1982) 385
Heppner, J., see Y.C. Ni 32 (1980) 459
Heppner, J., see G.D. Willenberg 33 (1980) 193
Herbelin, J.M. and J.A. McKay, A replacement solvent for dimethylsulfoxide (SMSO) in cw dye lasers 36 (1981) 63
Herbelin, J.M., R. Klingberg, D.J. Spencer, M.A. Kwok, H. Bixler, R. Ueunten, R. Cook and W. Hansen, A flash photolysis bismuth atom laser 36 (1981) 475
Heritage, J.P. and J.G. Bergman, Wavelength derivative surface Raman given spectroscopy of carbonate on silver 35 (1980) 373
Herlemont, F., see M. Lyszyk 36 (1981) 327
Herlemont, F., see M. Lyszyk 37 (1981) 53
Herlemont, F., J. Fleury and J. Lemaire, Observation of Lamb dips by infrared fluorescence detection in D_2CO 37 (1981) 403
Hernández, R., see J. Bescós 37 (1981) 239
Herman, H., Near-millimetre wave emission from trioxan 35 (1980) 396
Hermann, J.A. and R.K. Bullough, Oscillating superfluorescence: the shape and delay of the leading pulse 31 (1979) 219
Hermann, J.A., Stability conditions for two-photon optical bistability in a ring cavity 37 (1981) 431
Hermann, J.A., see Li Fu-Li 40 (1982) 446
Herriau, J.P., see A. Marrakchi 34 (1980) 15
Herrmann, J. and U. Motschmann, Formation of synchronously mode-locked dye laser pulses 40 (1982) 379
Hese, A., see M. Brieger 38 (1981) 423
Hewig, G.H., see K. Jain 36 (1981) 483
Higuchi, A., see N. Sokabe 34 (1980) 255
Hildebrandt, J., see U. Rebhan 31 (1979) 69
Hill, R.A. and G.A. Laguna, Laser initiated combustion of $CH_4 + O_2$ mixtures 32 (1980) 435
Hill III, W.T., R.A. Abreu, T.W. Hänsch and A.L. Schawlow, Sensitive intracavity absorption at reduced pressures 32 (1980) 96
Hillaire, P., see D.S. Chemla 32 (1980) 187

Hinkov, V., Indiffused waveguides with thin metal buffer: TE_0-TM_0 mode splitting device 34 (1980) 171
Hirota, O., Y. Suematsu and K.-S. Kwok, Enhancement effect of high-frequency noise of injection lasers with reflected waves due to direct modulation 33 (1980) 136
Hirth, A., Th. Laser, R. Meyer and K. Schetter, Comparison of coaxial- and preionized linear flashlamps as pumping sources for high power repetitive dye laser 34 (1980) 223
Hirth, A., see A. Koeneke 34 (1980) 245
Hirth, A., R. Meyer and K. Schetter, On the proper choice of the preionization mode of linear flashlamps 35 (1980) 255
Hirth, A. and A. Koeneke, Regular spiking from a frequency doubled neodymium YAG laser 40 (1981) 41
Hirth, A., R. Meyer and K. Schetter, A reliable high power repetitive pulsed dye laser 40 (1981) 63
Hizhnyakov, V.V. and I.J. Tehver, Resonance Raman profile with consideration for quadratic vibronic coupling 32 (1980) 419
Hnilo, A.A., F.A. Manzano and A.H. Burgos, A reflection beam expander for short cavity dye laser 33 (1980) 311
Ho, P.P., see D.L. Rosen 35 (1980) 125
Hochstrasser, R.M., see E.J. Heilweil 35 (1980) 227
Hoffmann, K., see S. Raab 32 (1980) 133
Hofmann, H., see K. Gürs 33 (1980) 197
Hogervorst, W., see E.R. Eliel 36 (1981) 366
Hogervorst, W., see E.R. Eliel 39 (1981) 41
Hohla, K., see H.P. Grieneisen 37 (1981) 97
Holzwarth, J.F., see R.W. Eason 32 (1980) 113
Honda, T., see K. Ohnuma 36 (1981) 1
Honda, T., K. Okada and J. Tsujiuchi, 3-D distortion of observed images reconstructed from a cylindrical holographic stereogram. (1) Laser light reconstruction type 36 (1981) 11
Honda, T., see K. Okada 36 (1981) 17
Honda, T., see N. Ohyama 36 (1981) 434
Honda, T., see K. Ohnuma 37 (1981) 339
Hong-Jun, Z., D. Jian-Hua, Y. Jun-Hui and G. Cun-Xiu, A bistable liquid crystal electroptic modulator 38 (1981) 21
Hooper, C.F., see B. Yaakobi 34 (1980) 213
Hopf, F.A., P. Meystre, P.D. Drummond and D.F. Walls, Anomalous switching in dispersive optical bistability 31 (1979) 245
Hopf, F.A. and P. Meystre, Phase-switching of a dispersive non-linear interferometer 33 (1980) 225
Hopf, F.A., see A.L. Smirl 34 (1980) 463
Hopf, F.A., A. Tomita, G. Al-Jumaily, M. Cervantes and T. Liepmann, Second-harmonic interferometers II 36 (1981) 487
Hopf, F.A., A. Tomita and T. Liepmann, Quality of phase conjugation in silicon 37 (1981) 72
Hora, H., Optical constants of plasmas based on quantum corrected collisions 38 (1981) 193
Hornauer, D.L. and H. Raether, Determination of roughness of LiF films using guided light modes 40 (1981) 105
Horváth, Z.Gy., A.V. Kilpio, A.A. Malyutin and Yu.N. Serdyuchenko, Picosecond two-dimensional "halo" superradiance and laser in rhodamin 6G 35 (1980) 142
Horvitz, S., see H.J. Caulfield 40 (1981) 86
Hotop, R., K. Niemax, J. Richter and K.-H. Weber, Thermionic detection of the ionic fragments of continuum-state pair absorption systems 36 (1981) 35
Houdart, R., see P. Bernage 36 (1981) 241

Huang, C.-Y. and L. Mandel, Variation of laser photon statistics with cavity length 32 (1980) 345
Huard, S. et D. Chardon, Mesure de l'absorption d'une fibre optique par effet photo-acoustique 39 (1981) 59
Hübner, U., see G.D. Willenberg 33 (1980) 193
Hudson, B.S., see L.D. Ziegler 32 (1980) 119
Huet, M. and E. Luc-Koenig, Facteurs de Landé des niveaux des configurations 5s5p et 5s5d de Cd I 40 (1982) 342
Hüffer, W., R. Schieder, H. Telle, R. Raue and W. Brinkwerth, New efficient laser dye for pulsed and cw operation in the UV 33 (1980) 85
Hüffer, W., see H. Telle 38 (1981) 402
Hug, W., see H. Surbeck 38 (1981) 57
Huignard, J.P., see A. Marrakchi 34 (1980) 15
Huignard, J.P., see L. Pichon 36 (1981) 277
Huignard, J.P. and A. Marrakchi, Coherent signal beam amplification in two-wave mixing experiments with photorefractive $Bi_{12}SiO_{20}$ crystals 38 (1981) 249
Huiser, A.M.J., A. Quattropani and H.P. Baltes, Numerical solution of electromagnetic scattering problems. Case of perfectly conducting cylinders 37 (1981) 307
Huiser, A.M.J. and H.P. Baltes, Electromagnetic scattering by perfectly conducting rough surfaces; facet model 40 (1981) 1
Hulin, D., see A. Antonetti 38 (1981) 431
Hummel, R.E., Differential reflectometry of sputtered silver-aluminum films between 1.6 and 6.2 eV 39 (1981) 55
Humphrey, I.M., see P.F. Liao 34 (1980) 195
Hutchinson, D.A. and C. Mavroyannis, Two-photon resonance fluorescence. II. Numerical results 38 (1981) 314
Hutchinson, D.A., C. Downie and C. Mavroyannis, The effect of detuning upon resonance fluorescence 40 (1982) 391
Hutchinson, I.H., Polarization modulation of a submillimetre laser 38 (1981) 201
Hutchinson, I.H., The phase of reflection form a conducting grating 39 (1981) 1
Hutchinson, M.H.R., see K.T.V. Grattan 39 (1981) 303
Hutley, M.C., The use of apodization to reduce stray light from diffraction gratings 40 (1982) 317
Hutton, G.D., An exact solution for the on-axis amplitude of a circularly symmetric aperture function 37 (1981) 379

Igarashi, T., see Y. Fujii 38 (1981) 85
Ignácz, P.N., see J.S. Bakos 37 (1981) 408
Ikeda, M., Spectral power handling capability caused by stimulated Raman scattering effect in silica optical fibers 37 (1981) 388
Ikeda, M., Stimulated Raman amplification characteristics in long span single-mode silica fibers 39 (1981) 148
Iles, M.K., A.P. D'Silva and V.A. Fassel, Single mode nitrogen pumped dye laser 35 (1980) 133
Illarionov, A.I. and V.I. Stroganov, Experimental observation of conical generation in optical harmonic generation 31 (1979) 239
Illarionov, A.I., see V.I. Stroganov 35 (1980) 455
Illingwoth, R. and R.K. Thareja, An interferometer for use with highly refracting laser created plasmas 32 (1980) 51
Imai, M. and Y. Ohtsuka, Speckle-pattern contrast of semiconductor laser propagating in a multimode optical fiber 33 (1980) 4

Imai, M., T. Ohashi and Y. Ohtsuka, High-sensitive all-fiber Michelson interferometer by use of differential output configuration 39 (1981) 7
Imai, Y., see Y. Ohtsuka 35 (1980) 157
Imamura, T., see N. Magome 36 (1981) 347
Imbert, C., see A. Aspect 34 (1980) 46
Imura, K., see N. Sokabe 34 (1980) 255
Indebetouw, G., Optical correlator with extended depth of field 39 (1981) 21
Indebetouw, G., Interferometric imaging through fog with a Fizeau interferometer 40 (1981) 91
Inguscio, M., A. Moretti and F. Strumia, New laser lines from optically pumped CH_3OH: measurements and assignments 32 (1980) 87
Inguscio, M., A. Moretti and F. Strumia, Spectroscopy inside the homogeneous linewidth in three-coupled level system 35 (1980) 64
Inguscio, M., N. Ioli, A. Moretti, G. Moruzzi and F. Strumia, Optical pumping of FIR lasers by a tunable CW waveguide CO_2 laser 37 (1981) 211
Ioli, N., see M. Inguscio 37 (1981) 211
Irion, M., see E. Fill 37 (1981) 289
Isaev, S.K., L.S. Kornienko, N.V. Kravtsov and V.N. Serkin, Sliding pump method for generation and amplification of ultrashort light pulses 38 (1981) 136
Ishida, Y., A. Nakamura, K. Naganuma and T. Yajima, Internal amplification of subpicosecond pulses from a cw mode-locked dye laser 39 (1981) 411
Itoh, H., M. Hayakawa, Y. Fukuda and M. Matsuoka, Polarization labelling spectroscopy of the $A^1\Sigma_u^+$ band of Na_2 36 (1981) 131
Itoh, K., see Y. Ohtsuka 31 (1979) 9
Itoh, K. and Y. Ohtsuka, Illumination with a moving light source 31 (1979) 125
Itoh, K. and Y. Ohtsuka, Spatial coherence measurement through turbulent atmosphere using a computer-aided interferometer 36 (1981) 250
Itoh, M. and I. Ogura, Absorption measurement of the optical materials by real time holographic interferometry 33 (1980) 183
Ivanov, L.N., see G.I. Bekov 35 (1980) 194
Izatt, J.R., see P. Bernard 37 (1981) 285

Jääskeläinen, T., see R. Silvennoinen 39 (1981) 123
Jackson, D.J., see N.W. Carlson 32 (1980) 350
Jackson, D.J., E. Arimondo, J.E. Lawler and T.W. Hänsch, Infrared optogalvanic spectroscopy in the helium positive column using an F-center laser 33 (1980) 51
Jackson, D.J., H. Gerhardt and T.W. Hänsch, Doppler-free optogalvanic spectroscopy using an infrared color center laser 37 (1981) 23
Jackson, W.R., see G. Jones II 33 (1980) 315
Jacobs, S.D., see W. Seka 34 (1980) 469
Jacoby, D., G.J. Pert, S.A. Ramsden, L.D. Shorrock and G.J. Tallents, Observation of gain in a possible extreme ultraviolet lasing system 37 (1981) 193
Jacques, A. and P. Glorieux, Probe of the dressed molecule energy levels by infrared radio-frequency double resonance 40 (1982) 201
Jacques, A. and P. Glorieux, Observation of bistability in a CO_2 laser exhibiting passive Q-switching 40 (1982) 455
Jagannatha Reddy, K.P., see J. Ram 33 (1980) 323
Jahns, J., see J. Götz 40 (1982) 325
Jain, K. and G.H. Hewig, Phase-matched second-harmonic generation at 440 nm in a

$LiNbO_3$-$Gd_3Ga_5O_{12}$ waveguide with a tunable stimulated Raman source 36 (1981) 483
Janitti, E., see G. Tondello 32 (1980) 281
Jasny, J., see E.E. Marinero 36 (1981) 69
Javanainen, J., Low intensity fluorescence from a trapped ion 34 (1980) 375
Jean, B. et M.L. Roblin, Interférometrie à double plage par photographie "speckle" 33 (1980) 123
Jean, B. et M.L. Roblin, Etude du chromatisme d'un système optique par photographie "speckle" 37 (1981) 248
Jessop, P.E. and A. Szabo, High resolution measurements of the R_1 line at low temperatures 33 (1980) 301
Jian-Jua, D., see Z. Hong-Jun 38 (1981) 21
John, P.K., see M. Dembinski 32 (1980) 317
John, P.K., S.J.C. Box and M. Dembinski, Modulation of a CO_2 laser by plasma injection into the cavity 33 (1980) 213
Johnsson, L.G., see E.J. Seibert 39 (1981) 186
Johnston, A.M., see D.A.B. Miller 32 (1980) 478
Jolliffe, B.W., see P.T. Woods 33 (1980) 281
Jolliffe, B.W., see B.R. Marx 33 (1980) 287
Jonathan, J.M.C., Interferograms obtained from photodichroic recording of two partially coherent vibrations with opposite sense 40 (1982) 239
Jones, E.G., see D. Schmieder 36 (1981) 223
Jones, G., II, W.R. Jackson, S. Kanoktanaporn and A.H. Halpern, Solvent effects on photophysical parameters for coumarin laser dyes 33 (1980) 315
Jones, K.M., see A.J. Taylor 39 (1981) 47
Jortner, J., see A. Amirav 32 (1980) 266
Joshi, C. and P.B. Corkum, Generation of gigawatt subnanosecond 1.06 μm pulses by regenerative amplification in Nd : glass 36 (1981) 82
Journeaux, R., M. Laurent and R. Viovy, Light propagation in absorbing cholesterics and twisted nematics 38 (1981) 330
Julien, F. and J.-M. Lourtioz, High power performances of a cw optically pumped 117 μm/184 μm CH_2F_2 laser with uniform coupling 38 (1981) 294
Jun-Hui, Y., see Z. Hong-Jun 38 (1981) 21
Just, K., see M.S. Zubairy 36 (1981) 175

Kachru, R., T.W. Mossberg, E. Whittaker an S.R. Hartmann, Optical echoes generated by standing-wave fields: observations in atomic vapors 31 (1979) 223
Kaczmarek, F., see T. Kulinski 35 (1980) 120
Kadiri, S., see C. Aime 35 (1980) 169
Kadiri, S., see C. Aime 39 (1981) 287
Kafka, J.D., see T. Sizer II 39 (1981) 259
Kafri, O. and A. Livnat, On the measurement of angles between edges of distant objects using a diffraction grating 33 (1980) 231
Kaftandijian, V.P., see C. Delsart 32 (1980) 406
Kaga, A.G., see Ya.I. Khanin 32 (1980) 456
Kagan, D., see P.E. Coleman 36 (1981) 127
Kaiser, W., see B. Kopainsky 32 (1980) 451
Kaiser, W., see W. Zinth 32 (1980) 507
Kaiser, W., see W. Kranitzky 34 (1980) 483
Kaiser, W., see W. Kranitzky 36 (1981) 149

Kaiser, W., see P. Scherer 39 (1981) 375
Kaivola, M., see C.G. Aminoff 37 (1981) 133
Kaldor, A., see D.M. Cox 31 (1979) 153
Kalkar, A.K., see J.C.D. Brand 39 (1981) 235
Kamke, W., see A. Eichhorn 31 (1979) 306
Kamshilin, A.A., Effect of infra-red irradiation on holographic recording in bismuth silicon oxide 36 (1981) 429
Kanada, T. and K. Nawata, Single-mode operation of a modulated laser diode with a short external cavity 31 (1979) 81
Kanaev, L.F., V.K. Malinovsky and B.I. Sturman, Investigation of photo-induced scattering in $LiNbO_3$ crystals 34 (1980) 95
Kanamori, H., see S. Hayashi 36 (1981) 195
Kaneko, T. and Y. Torii, Liquid crystal polarization rotator: optical element for intermodulation spatial-bandwidth reduction in holography 32 (1980) 220
Kanoktanaporn, S., see G. Jones II 33 (1980) 315
Kaplan, A.E. and P. Meystre, Directionally asymmetrical bistability in a symmetrically pumped nonlinear ring interferometer 40 (1982) 229
Kar, A.K., see R.G. Harrison 34 (1980) 445
Kar, A.K., M.F. Kimmitt and A.A. Serafetinides, Absorption saturation of n-type gallium phosphide 37 (1981) 277
Karlov, N.V., see S.S. Alimpiev 31 (1979) 309
Karmenyan, A.V., see V.M. Arutunyan 36 (1981) 227
Karttunen, S.J., see A. Ng 36 (1981) 200
Kasahara, K. and F. Shimizu, Resonant two-photon spectrum in a Doppler broadened line 37 (1981) 100
Kawamura, Y., M. Sakajiri, M. Matoba, S. Nakai and C. Yamanaka, Stable subnanosecond modelock multiline TEA CO_2 laser controlled by a NaCl etalon 31 (1979) 178
Kazantsev, A.P., see G.A. Delone 33 (1980) 149
Kazantsev, A.P., V.S. Smirnov and V.P. Sokolov, Correlation properties of resonantly scattered light 35 (1980) 209
Kazaryan, M.A., G.G. Petrash and K.I. Zemskov, Gold vapour brightness amplifier 33 (1980) 209
Kearsley, A.J., A.J. Andrews and C.E. Webb, A novel pre-ionization technique for discharge excited rare gas halide lasers 31 (1979) 181
Keck, R., see W. Seka 40 (1982) 437
Kegung, D., see M. Gläser 38 (1981) 119
Keller, J.-C., see C. Delsart 32 (1980) 406
Kenan, R.P., see C.M. Verber 34 (1980) 32
Kerherve, F., see P. Boissel 37 (1981) 397
Kersten, R.Th. and D.F. Stelzner, Multimode integrated optics using dielectric and hollow metallic waveguides 36 (1981) 25
Kersten, R.Th., see H.F. Schlaak 36 (1981) 186
Kersten, R.Th., see K.H. Tietgen 36 (1981) 281
Kersten, R.Th., Phase-sensitivity of directional couplers 36 (1981) 444
Kersten, R.Th., see T. Le Hiep 40 (1981) 111
Khabibulayev, P.K., see N.B. Delone 36 (1981) 459
Khanin, Ya.I., A.G. Kagan, V.P. Novikov, M.A. Novikov, I.N. Polushnik and A.I. Shcherbakov, Experimental study of spectral condensation of dye laser emission near the absorption lines of intracavity atoms 32 (1980) 456

Kharmalov, B.M., see V.G. Koloshnikov 35 (1980) 213
Khawaja, E., see G. Leuchs 31 (1979) 313
Khokhlov, E.M., see S.S. Alimpiev 31 (1979) 309
Khomenko, A.V., see M.P. Petrov 37 (1981) 253
Khoo, I.C. and R.F. Code, Time-delayed laser scattering in a multilevel atom with Raman resonance 32 (1980) 145
Khoo, I.C., Y.G. Fuh and R.F. Code, Time delayed picosecond optical pulse transmission in liquid DODCI solutions 32 (1980) 191
Khotskin, V.I., see O.I. Potaturkin 34 (1980) 159
Kielich, S., see R. Tanas 32 (1980) 399
Kielich, S., Nonlinear refractive index and light scattering due to fluctuations of molecular multipole electric fields 34 (1980) 367
Kielich, S., see Z. Ficek 36 (1981) 121
Kildal, H., see S.R.J. Brueck 34 (1980) 199
Kilpio, A.V., see Z.Gy. Horváth 35 (1980) 142
Kimmitt, M.F., see A.K. Kar 37 (1981) 277
Kimura, M., see H. Wakata 38 (1981) 271
Kirkin, A.N., see V.V. Blazhenkov 34 (1980) 231
Klann, H., J. Kuhl and D. von der Linde, Highly stable acousto-optic mode-locking using active feedback 38 (1981) 390
Klenk, J., see H.J. Tiziani 34 (1980) 327
Klingberg, R., see J.M. Herbelin 36 (1981) 475
Klingshirn, C., see W. Wünstel 32 (1980) 269
Klose, E., see K. Berndt 35 (1980) 417
Knierim, W., see W. Künzel 36 (1981) 383
Knight, P.L., Interference in two-channel two-photon ionization 31 (1979) 148
Knight, P.L., The origin of quantum beats in photoionization 32 (1980) 261
Knight, P.L., see P.E. Coleman 36 (1981) 127
Knight, R.D., see M.H. Prior 35 (1980) 54
Knox, W., see M. Stavola 34 (1980) 404
Knox, W. and G. Mourou, A simple jitter-free picosecond streak camera 37 (1981) 203
Kobayashi, M., see T. Yoshiba 40 (1981) 45
Kobayashi, N., see S. Ueha 34 (1980) 340
Koch, H., see H.J. Eichler 34 (1980) 228
Koch, K.P., see W. Gellermann 35 (1980) 430
Koch, T.L., L.C. Chiu and A. Yariv, Gain saturation of a picosecond dye laser amplifier chain 40 (1982) 364
Koeneke, A. and A. Hirth, Long pulse emission from a frequency doubled neodymium YAG laser 34 (1980) 245
Koeneke, A., see A. Hirth 40 (1981) 41
Koloshnikov, V.G., Yu.A. Kurtisyn, I. Pak, N.I. Ulitskiy, B.M. Kharlamov, A.D. Britov, I.I. Zasavistky and A.P. Shotov, Zeeman effect in the IR spectrum of a molecule without an electronic moment. Observation with a tunable diode laser 35 (1980) 213
Kolwas, M., The influence of the Hanle effect on Raman scattered light 33 (1980) 216
Komarev, K.P., see K.G. Folin 35 (1980) 351
Komarev, K.P., see A.K. Folin 36 (1981) 462
Komatsu, S., K. Osato and H. Ohzu, Velocity sensitivity of laser-speckle velocimeters 39 (1981) 357
Kompa, K.L., see H.P. Grieneisen 37 (1981) 97

Kompanets, I.N., A.V. Parfenov and Yu.M. Popov, Bistable properties of spatial light modulator with internal feedback 36 (1981) 415
Kompanets, I.N., A.V. Parfenov and Yu.M. Popov, Multistability in optical transmittance of spatial light modulators with internal feedback 36 (1981) 417
Kompanets, I.N., see O.V. Garibyan 38 (1981) 67
Kompa, K.L., see J. Krasinski 35 (1980) 363
Kondo, K., M. Mabuchi and H. Hasegawa, On the stationary distribution of photons in optical bistability 32 (1980) 136
Kondo, K., see Y. Fukuda 38 (1981) 357
Kondratyev, A.I., see M.I. Kostenko 36 (1981) 140
Konefal, Z. and J. Szczepański, Flash-lamp pumped dye laser excited by a transverse discharge 36 (1981) 331
König, R., see A. Lau 32 (1980) 75
König, R., G. Minkwitz and B. Christov, Nanosecond dye laser of short constructional length with a folded mirror beam expansion system 32 (1980) 301
König, R., see S. Mory 38 (1981) 416
Kononov, A.V., see V.V. Blazhenkov 34 (1980) 231
Konopnicki, M.J., see J.H. Eberly 35 (1980) 76
Konopnicki, M.J., P.D. Drummond and J.H. Eberly, Theory of lossless propagation of simultaneous different-wavelength optical pulses 36 (1981) 313
Konov, V.I., see I. Ursu 35 (1980) 96
Konov, V.I., see I. Ursu 39 (1981) 180
Kopainsky, B., W. Kaiser and K.H. Drexhage, New ultrafast saturable absorbers for Nd: lasers 32 (1980) 451
Kopainsky, B., see W. Kranitzky 36 (1981) 149
Kopainsky, B., see P. Scherer 39 (1981) 375
Koprinkov, I.G., see S.G. Dinev 32 (1980) 313
Koprinkov, I.G., see S.G. Dinev 35 (1980) 403
Koren, G., I. Levin and U.P. Oppenheim, The infra-red fluorescence spectrum of multi-photon excited SF_6 31 (1979) 321
Koren, G., I. Levin and U.P. Oppenheimer, Slow intermolecular redistribution of vibrational energy in SF_6 gas excited by a TEA CO_2 laser 32 (1980) 257
Koren, G., M. Dahan and U.P. Oppenheim, Multiple-photon absorption of a CO_2-pumped CF_4 laser radiation in UF_6 38 (1981) 265
Korn, G., see S. Mory 36 (1981) 342
Kornienko, L.S., see S.K. Isaev 38 (1981) 136
Koroteev, N.I., see A.M. Brodnikovsky 40 (1982) 312
Kostenich, Yu.V., see S.A. Batishche 38 (1981) 71
Kostenko, M.I., V.I. Stroganov and A.I. Kondratyev, Thermally enhanced response of metal–oxide–metal diodes 36 (1981) 140
Kotenko, L.P., see V.V. Blazhenkov 34 (1980) 231
Kovrighin, A.I., D.V. Yakovlev, B.V. Zhdanov, N.I. Zheludev, Self-induced activity in crystals 35 (1980) 92
Koyama, J., see H. Nishihara 31 (1979) 16
Kozlov, D.N., see G.Ya. Zueva 35 (1980) 218
Kozlovsky, V.I., see O.I. Potaturkin 40 (1982) 164
Krainov, V.P., see N.B. Delone 40 (1982) 205
Krainska-Miszczak, M., Decoupling in the $^2P_{3/2}$ state and D_2 fluorescence of alkali metal

atoms 38 (1981) 255
Krakhella, K., see O.J. Løkberg 38 (1981) 155
Kramer, S.D., see C.H. Chen 32 (1980) 391
Kranitzky, W., K. Ding, A. Seilmeier and W. Kaiser, Parametric generation of shortened, narrowband picosecond pulses using a YAG-pump laser 34 (1980) 483
Kranitzky, W., B. Kopainsky, W. Kaiser, K.H. Drexhage and G.A. Reynolds, A new infrared laser dye of superior photostability tunable to 1.24 μm with picosecond excitation 36 (1981) 149
Kranitzky, W., D. Reiser and A. Sellmeier, Temperature dependent solvent shift of polyatomic molecules observed by ultrashort two-pulse spectroscopy 39 (1981) 321
Krasinski, J., T. Stacewicz and C.R. Stroud Jr., The process of energy transfer between excited sodium atoms 33 (1980) 158
Krasinski, J., S.H. Bauer and K.L. Kompa, Stimulated emissions from atomic iron generated by excitation of iron carbonyl 35 (1980) 363
Krasinski, J., see T. Stacewicz 39 (1981) 35
Krasnov, I.V. and N.Ya. Shaparev, Manifestation of the gas translational nonequilibrium in a resonance electromagnetic field 34 (1980) 68
Krasnov, I.V., N.Ya. Shaparev and I.M. Shkedov, Optical control of resonance radiation processes 34 (1980) 181
Krätzig, E., see R. Orlowski 35 (1980) 45
Kraus, J., see A. Penzkofer 37 (1981) 437
Kravtsov, N.V., see S.K. Isaev 38 (1981) 136
Krisiloff, A., see T. Sizer II 39 (1981) 259
Kritchman, E.M., Linear Fresnel lens with grooves of finite size 34 (1980) 143
Kronfeldt, H.-D., see G.W. Zhang 40 (1981) 49
Kubo, H. and R. Nagata, Stokes parameter representation of the light propagation equations in inhomogeneous anisotropic, optically active media 34 (1980) 306
Küchel, F.M. and H.J. Tiziani, Real-time contour holography using BSO crystals 38 (1981) 17
Kuhl, J., see H. Klann 38 (1981) 390
Kühlke, D., see W. Dietel 35 (1980) 445
Kujawinska, M., see H. Chen 40 (1982) 169
Kukhtarev, N. and S. Odoulov, Degenerated four-wave mixing in $LiNbO_3$ and $LiTaO_3$ 32 (1980) 183
Kukhtarev, N., see A. Borshch 35 (1980) 287
Kulikov, V.V., see M.P. Petrov 31 (1979) 301
Kulinski, T., F. Kaczmarek, M. Ludwiczak and Z. Blaszczak, Emission characteristics of an $LiF:F_2$ colour centre laser in the visible 35 (1980) 120
Kulkarni, V.G., Sequential hologram interferometry with diffusely illuminated objects 39 (1981) 132
Kullmer, R., see A. Fischer 39 (1981) 277
Kumar, A., see K. Thyagarajan 39 (1981) 26
Kumar, P., G.O. Brink, S. Spence and H.S. Lakkaraju, Line shape studies in cw dye laser intracavity absorption 32 (1980) 129
Kumar, S., C.L. Mehta and G.S. Agarwal, A source of nonclassical radiations exhibiting photon antibunching 39 (1981) 197
Kunz, R.E., see W. Lukosz 31 (1979) 42, 251
Künzel, W., W. Knierim and U. Dürr, CW infrared laser action of optically pumped Co^{2+}: $KZnF_3$ 36 (1981) 383
Kuper, T.G., G.T. Moore and M.O. Scully, Dynamics of the pulsed free-electron laser 34 (1980) 117
Kuritsyn, Yu.A., see V.G. Koloshnikov 35 (1980) 213

Kurobori, Y.Y. Cho and Y. Matsuo, An intensity/phase autocorrelator for the use of ultrashort optical pulse measurements 40 (1981) 156
Kuwahara, H., Y. Onoda, M. Sasaki and M. Shirasaki, An optical isolator for semiconductor lasers in the 0.8 μm range 40 (1981) 99
Kuwata, M., T. Mita and N. Nagasawa, Polarization rotation effects associated with the two-photon transition of Γ_1-excitonic molecules in CuCl 40 (1982) 208
Kuzmichev, S.D., see G.A. Delone 33 (1980) 149
Kuzmin, M.V., Determination of fraction of molecules excited by laser IR radiation 33 (1980) 26
Kwok, K.-S., see O. Hirota 33 (1980) 136
Kwok, M.A., see J.M. Herbelin 36 (1981) 475

Labudde, P., P. Anliker and H.P. Weber, Transmission of narrow band high power laser radiation through optical fibers 32 (1980) 385
Ladrach, P. and F.E. Balmer, Properties of the resonantly enhancement electric field in homogeneous laser-generated plasma 31 (1979) 350
Lädrach, P., see A.P. Schwarzenbach 39 (1981) 247
Laeri, F., see B. Schneeberger 31 (1979) 13
Laeri, F., B. Schneeberger and T. Tschudi, Spatial light modulator based on a deformable oil layer 34 (1980) 23
Laeri, F., see B. Schneeberger 36 (1981) 107
Laeri, F. and T. Tschudi, Image processing and coherent feedback with a modified confocal resonator 36 (1981) 265
Lafait, J., see S. Berthier 33 (1980) 303
Laguna, G.A., see R.A. Hill 32 (1980) 435
Lakkaraju, H.S., see P. Kumar 32 (1980) 129
Lalanne, J.R., see B. Pouligny 37 (1981) 271
Lam, J.F., see D.G. Steel 40 (1981) 77
Lambert, D., Stark shift by inhomogeneous strong E field 34 (1980) 209
Langer, H., H. Puell and H. Röhr, Lyman alpha (1216 Å) generation in krypton 34 (1980) 137
Lapierre, J., J. Buras et D. Pascale, Mesure de la reponse en frequence de filtres de Bragg dans une fibre optique par balayage thermique 40 (1981) 95
Laporta, L., see S. de Silvestri 37 (1981) 20
Laporta, P., see A. Andreoni 33 (1980) 277
Larzilliere, M., M. Carre, M.L. Gaillard and F. Stoeckel, Further development in fast ion beam laser spectroscopy (F.I.B.L.A.S.): Zeeman effect in singly ionized ^{138}Ba 37 (1981) 27
Lasser, Th., see A. Hirth 34 (1980) 223
Lasser, Th., An alternative method for CARS-spectra calculation 35 (1980) 447
Last, I., Y. Reuven and B. Baer, Time dependent laser equations for finite phase memory decay constant 39 (1981) 83
Latush, E.L., see D.C. Gerstenberger 31 (1979) 28
Lau, A., R. Konig and M. Pfeiffer, Line shape of resonance CARS as an indicator for the scattering of molecules in ground or excited states 32 (1980) 75
Lau, A., see M. Pfeiffer 34 (1980) 63
Lau, A., M. Pfeiffer, K. Lenz and H.-J. Weigmann, Influence of resonant electronic background susceptibility on the line shapes of CARS signals 38 (1981) 139
Lau, K.Y. and A. Yariv, Nonlinear distortions in the current modulation of non-self-pulsing and weakly self-pulsing GaAs/GaAlAs injection lasers 34 (1980) 424
Lau, K.Y. and A. Yariv, Gbit/s rate bipolar pulse modulation of semiconductors injection

lasers 35 (1980) 337
Lau, K.Y., C. Harder and A. Yariv, Ultimate frequency response of GaAs injection lasers 36 (1981) 472
Laubereau, A., see H.R. Telle 34 (1980) 287
Laubereau, A., see H. Graener 37 (1981) 138
Laufer, G., R.B. Miles and D. Santavicca, Angularly resolved coherent Raman spectroscopy (ARCS) in gases 31 (1979) 242
Launspach, J., D. Billon, M. Decroisette and D. Meynial, X-ray shadowgraphy applications in laser implosion studies 38 (1981) 407
Laurent, M., see R. Journeaux 38 (1981) 330
Lavi, S., see J. Tenenbaum 32 (1980) 473
Lavi, S., see J. Tenenbaum 36 (1981) 391
Lawande, S.V., see R.R. Puri 35 (1980) 179
Lawler, J.E., see D.J. Jackson 33 (1980) 51
Lawler, J.E., see B. Couillaud 35 (1980) 359
Lazareff, B., see L. Moi 33 (1980) 47
Leberre-Rousseau, M., E. Ressayre and A. Tallet, Self-induced generation of an off-axis frequency shifted radiation from atoms 36 (1981) 31
Lecoq, P., see H. Royer 37 (1981) 84
Leduc, M., Synchronous pumping of dye lasers up to 1095 nm 31 (1979) 66
Lee, Chi H., see P.S. Mak 32 (1980) 485
Lee, J.B., see H.K. Cheung 39 (1981) 105
Lee, P., X-ray diffraction in multilayers 37 (1981) 159
Lee, S.H., see Z.-H. Gu 39 (1981) 137
Lee, T.P., see C.A. Burrus 38 (1981) 124
Lee, W.-H., Techniques for recording holographic lenses for infrared wavelengths 34 (1980) 29
Lee, W.-H., Method for converting a gaussian laser beam into a uniform beam 36 (1981) 469
Lefkopoulos, D., B. Danet, R. Guiraud et J.P. Morucci, Tomographie à l'aide du reseau de Fresnel. Simulation numérique de la reconstruction optique 40 (1982) 243
Leger, J., see J. Duvernoy 32 (1980) 39
Leger, J.R., see Z.-H. Gu 39 (1981) 137
Legrand, J., see B. Macke 32 (1980) 174
Le Hiep, T. and R.Th. Kersten, A combined mode-filter/mixer to determine spectral attenuation of graded index fibres 40 (1981) 111
Leith, E., see G.C. Yang 36 (1981) 101
Leitner, A., see F.R. Aussenegg 31 (1979) 231
Leitner, A., see F. Aussenegg 32 (1980) 121
Lemaire, J., see M. Lyszyk 36 (1981) 327
Lemaire, J., see M. Lyszyk 37 (1981) 53
Lemaire, J., see F. Herlemont 37 (1981) 403
Le Nai, P., see G. Brassart 36 (1981) 477
Lenstra, D., see A. Tumaikin 38 (1981) 303
Lenz, K., see A. Lau 38 (1981) 139
Leo, M., see I. Boscolo 36 (1981) 337
Leo, R.A., see I. Boscolo 36 (1981) 337
Leonhardt, K., see H.J. Tiziani 34 (1980) 327
Leontovich, A.M., see V.V. Blazhenkov 34 (1980) 231
Leopold, K.E., see R.S. Taylor 31 (1979) 197
Letokhov, V.S., see G.I. Bekov 35 (1980) 194

Letokhov, V.S. and V.G. Minogin, Possibility of accumulation and storage of gold atoms in magnetic traps 35 (1980) 199
Letokhov, V.S., see V.N. Bagratshvili 38 (1981) 31
Letokhov, V.S., see V.S. Antonov 38 (1981) 182
Letokhov, V.S., see V.G. Minogin 38 (1981) 225
Leubner, C., H. Schreingraber and C.R. Vidal, The linewidth dependence of resonant, small signal sum frequency mixing 36 (1981) 205
Leuchs, G., S.J. Smith, E. Khawaja and H. Walther, Quantum beats observed in photoionization 31 (1979) 313
Leuchs, G., see H. Figger 33 (1980) 37
Levin, G.A., A new way of gas cooling by light 35 (1980) 61
Levin, I., see G. Koren 31 (1979) 321
Levin, I., see G. Koren 32 (1980) 257
Levin, L.A., see J. Tenenbaum 32 (1980) 473
Levin, L.A., see J. Tenenbaum 36 (1981) 391, 395
Levy, G.F.D., Forward stimulated Raman scattering (385 μm) in a D_2O laser 38 (1981) 143
Lewellen, L.R. and G.O. Brink, Intracavity absorption line shape and the super-regen model 39 (1981) 159
Li, Y., see E. Wolf 39 (1981) 205
Li, Y. and E. Wolf, Focal shifts in diffracted converging spherical waves 39 (1981) 211
Liao, P.F., R.R. Freeman, R. Panock and I.M. Humphrey, Hyperfine-induced singlet-triplet mixing in ^{3}He 34 (1980) 195
Liberman, S., see A. Crubellier 33 (1980) 143
Liening, H., see M. Baumann 38 (1980) 259
Liepmann, T., see F.A. Hopf 36 (1981) 487
Liepmann, T., see F.A. Hopf 37 (1981) 72
Li Fu-Li, J.A. Hermann and J.N. Elgin, Effects of two-photon optical bistability upon conjugation 40 (1982) 446
Likhansky, V.V. and A.P. Napartovich, The intensity response on the input fluctuations of the active medium parameters in the fast flow laser 32 (1980) 309
Lilienhof, H.-J., K.F. Heidemann, D. Ritter and E. Voges, Index profiles of multimode optical strip waveguides by field-enhanced ion exchange in glasses 35 (1980) 49
Limura, Y., see T. Shigenari 31 (1979) 57
Lindel, H., see M. Baumann 38 (1981) 259
Liphardt, B., B. Liphardt and W. Lüttke, Laser dyes with intramolecular triplet quenching 38 (1981) 207
Liphardt, B., see B. Liphardt 38 (1981) 207
Lippitsch, M.E., see F.R. Aussenegg 31 (1979) 231
Lippitsch, M.E., see F.R. Aussenegg 37 (1981) 59
Lippitsch, M.E., see F.R. Aussenegg 40 (1982) 263
Liran, J., J. Pietras, J. Camparo and W. Happer, Optical pumping of cesium atoms with second resonance light 31 (1979) 169
Liu, J., see R. Yen 35 (1980) 277
Liu, P., see R. Yen 31 (1979) 334
Livnat, A., see O, Kafri 33 (1980) 231
Lohmann, A.W. and C. Thun, Measurement of histograms of halftone images 31 (1979) 114
Lohmann, A.W., see H.O. Bartelt 32 (1980) 32
Lohmann, A.W. and L. Po-Shiang, Computer generated moiré 34 (1980) 167
Løkberg, O.J. and K. Krakhella, Electronic speckle pattern interferometry using optical

fibers 38 (1981) 155
Longobardi, G., see F. Francini 33 (1980) 1
Longoni, A., see S. de Silvestri 37 (1981) 20
Lorenzen, C.-J., K.-H. Weber and K. Niemax, Energies of the $n^2S_{1/2}$ and $n^2D_{3/2,5/2}$ states of Cs 33 (1980) 271
Lorenzen, C.-J., K. Niemax and L.R. Pendrill, Precise measurements of ^{39}K nS and nD energy with an evacuated wavemeter 39 (1981) 370
Louisell, W.H., see A.A. Makarov 31 (1979) 31
Louisell, W.H., see C.D. Cantrell 36 (1981) 303
Lourtioz, J.-M., see F. Julien 38 (1981) 294
Lowenthal, S., see R. Mercier 33 (1980) 251
Loy, M.M.T., see A.S. Subdø 37 (1981) 417
Luc, P., see S. Gerstenkorn 36 (1981) 322
Luches, A., V. Nassisi, A. Perrone and M.R. Perrone, Kr_2F^* and Kr_2^* radiative lifetime measurements 39 (1981) 307
Luc-Koenig, E., see M. Huet 40 (1982) 342
Ludwiczak, M., see T. Kulinski 35 (1980) 120
Lugarà, M., see A. Cingolani 32 (1980) 109
Lugarà, M., see A. Cingolani 34 (1980) 86
Lugiato, L.A., see F. Casagrande 32 (1980) 492
Lugatio, L.A., Self pulsing in dispersive optical bistability 33 (1980) 108
Lugiato, L.A., see V. Benza 33 (1980) 113
Lugiato, L.A., see R. Bonifacio 36 (1981) 159
Lugiato, L.A., V. Benza, L.M. Narducci and J.D. Farina, Optical bistability, instabilities and higher order bifurcations 39 (1981) 405
Lugiato, L.A., M. Milani and P. Meystre, Analytical description of anomalous switching in dispersive optical bistability 40 (1982) 307
Lukosz, W. and R.E. Kunz, Changes in fluorescence lifetime induced by variation of the radiating molecules' optical environment 31 (1979) 42
Lukosz, W. and R.E. Kunz, New method for determining refractive index and thickness of fluorescent thin films 31 (1979) 251
Luskin, B.M., see S.V. Gaponov 38 (1981) 7
Luther-Davies, B., Evidence of intensity dependent profile modification in laser-produced plasmas inferred from X-ray continuum measurements 34 (1980) 421
Luther-Davies, B., On the determination of density scale lengths in laser-produced plasmas using resonance absorption 37 (1981) 197
Lüthy, W., see P. Burkhard 34 (1980) 451
Lüthy, W., see T. Gerber 35 (1980) 242
Lüthy, W., P. Burkhard, T. Gerber and H.P. Weber, Laser emission at 535 nm by two-photon-dissociation of thallium-bromide 38 (1981) 413
Lüttke, W., see B. Liphardt 38 (1981) 207
Lüty, F., see W. Gellermann 35 (1980) 430
Lüty, F., see W. Gellermann 39 (1981) 391
Luu, T.K., see M. Shen 34 (1980) 311, 316
Luytskanov, V.L., S.D. Savov, S.M. Saltiel, K.V. Stamenov and I.V. Tomov, Mixing of XeCl laser and mode-locked Nd/YAG laser radiation in KDP crystal 37 (1981) 149
Lyons, D.R., A.L. Schawlow and G.-Y. Yan, Doppler-free radiofrequency optogalvanic spectroscopy 38 (1981) 35

Lyons, D.R., see T.W. Hänsch 38 (1981) 47
Lysiak, R.J., see R. Mays Jr. 31 (1979) 89
Lysiak, R.J., see R. Mays Jr. 32 (1980) 334
Lyszyk, M., F. Herlemont and J. Lemaire, A waveguide CO_2 laser operating in a gaussian mode: experimental analysis 36 (1981) 327
Lyszyk, M., J.C. Depannemaecker, J.G. Bantegnie, F. Herlemont, J. Lemaire and Y. Riant, Absolute diode-laser frequency calibration using varactor mixing with a stabilized CO_2 laser. Ozone spectrum near the $9R_6Co_2$ frequency 37 (1981) 53

Maaswinkel, A.G.M., Reflectance measurements on laser-produced plasmas at 0.26 μm 33 (1980) 62
Maaswinkel, A.G.M., Second harmonic generation accompanying linear mode conversion in a laser-produced plasma 35 (1980) 236
Mabuchi, M., see K. Kondo 32 (1980) 136
Macfarlane, R.M., C.S. Yannoni and R.M. Shelby, Optical line narrowing by nuclear spin decoupling in Pr^{3+}:LaF_3 32 (1980) 101
Macfarlane, R.M. and R.M. Shelby, Sub-kilohertz optical linewidths of the $^7F_0 \leftrightarrow {}^5D_0$ transition in Y_2O_3:Eu^{3+} 39 (1981) 169
MacGillivray, W.R. and M.C. Standage, Observation of optical nutational transients in laser excited Na D_2 line fluorescence 36 (1981) 189
MacGillivray, W.R., see K.G. Weyer 37 (1981) 426
Macke, B. and J. Legrand, Two photon coherence and pumping in infrared Doppler free molecular spectroscopy 32 (1980) 174
Macke, B., see B. Segard 38 (1981) 96
MacKenzie, H.A., R.B. Dennis, D. Voge and S.D. Smith, Intensity dependent Faraday rotation in indium antimonide 34 (1980) 205
Mackie, I., see P.G. Harper 32 (1980) 411
Madey, J.M.J., see D.A.G. Deacon 40 (1982) 373
Maeda, M., Y. Moniyama and Y. Miyazoe, Modeling of laser-excited optogalvanic effect in discharge plasmas 39 (1981) 64
Magnant, D., see A. Alexic 40 (1982) 353
Magnusson, R., see M.G. Moharam 32 (1980) 14, 19
Magome, N., T. Imamura, S. Ueha and J. Tsujiuchi, Acoustical interferometric method for measuring internal stress in a solid 36 (1981) 347
Mahr, H. and A.G. Sagan, Picosecond time resolved luminescence change upon saturation 39 (1981) 269
Maisano, G., see F. Aliotta 32 (1980) 274
Maitre, H., see G. Ferrano 38 (1981) 336
Mak, P.S., V.K. Mathur and Chi H. Lee, Picosecond optoelectronic switching in $CdS_{0.5}Se_{0.5}$ 32 (1980) 485
Makarian, A.H., K.M. Movsessian and P.S. Pogossian, The determination of laser characteristics by the method of frequency mixing in a nonlinear crystal 35 (1980) 147
Makarov, A.A., C.D. Cantrell and W.H. Louisell, On the possibility of nonresonant excitation of an ensemble of two-level systems 31 (1979) 31
Makarov, A.A., see V.N. Bagratashvili 38 (1981) 31
Makarov, G.N., see R.V. Ambartzumian 34 (1980) 81
Makimoto, T., see S. Yamamoto 31 (1979) 139
Maląg, A., Simple interference method of diffraction grating generation for integrated optics by the use of a Fresnel mirror 32 (1980) 54
Mal'chukov, A.G., see V.M. Agranovich 33 (1980) 234
Malinovsky, V.K., see L.F. Kaneav 34 (1980) 95

Maljavkin, L.P., see V.N. Bagratashvili 38 (1981) 31
Maloney, P.J., see O.R. Wood II 33 (1980) 307
Malyutin, A.A., see Z.Gy. Horváth 35 (1980) 142
Mamaev, A.V., see V.N. Blaschuk 31 (1979) 383
Mamilayev, R.M., see V.M. Antonov 38 (1981) 81
Mandel, L., see C.-Y. Huang 32 (1980) 345
Mandel, L., see R. Roy 34 (1980) 133
Mandel, L., see R. Roy 35 (1980) 247
Mandel, L., Intensity correlation time of an optical field 36 (1981) 87
Mandel, L. and E. Wolf, Complete coherence in the space-frequency domain 36 (1981) 247
Mandel, L., Two-time photon correlations in resonance fluorescence 39 (1981) 163
Mandel, L., see S. Singh 40 (1981) 139
Manners, J., see A. Corney 31 (1979) 354
Manzano, F.A., see A.A. Hnilo 33 (1980) 311
Marason, E.G., Laser dye DCM: CW, synchronously pumped, cavity pumped and single-frequency performance 37 (1981) 56
Marason, E.G., Energy transfer dye mixture for argon-pumped dye laser operation in the 700 to 800 nm region 40 (1982) 212
Marcou, J., N. Gremillet and G. Thomin, Polarization conversion by Bragg deflection in isotropic planar integrated optics waveguides. Part I. Theoretical study 32 (1980) 63
Marcou, J., see N. Gremillet 32 (1980) 69
Margulis, W., W. Sibbett, J.R. Taylor and D.J. Bradley, Reduction of jitter in streak-camera synchronization with picosecond laser pulses 32 (1980) 331
Margulis, W., W. Sibbett and J.R. Taylor, Active model-locking of lasers using GaAs and GaP picosecond switches 35 (1980) 153
Margulis, W. and W. Sibbett, Picosecond GaP switches 37 (1981) 224
Marinero, E.E. and J. Jasny, An interferometrically tuned and actively modelocked cw dye laser 36 (1981) 69
Marino, A., see G. Dattoli 35 (1980) 407
Marom, E., see P. Meron 39 (1981) 31
Marrakchi, A., J.P. Huignard and J.P. Herriau, Application of phase conjugation in $Bi_{12}SiO_{20}$ crystal to mode pattern visualisation of diffuse vibrating structures 34 (1980) 15
Marrakchi, A., see J.P. Huignard 38 (1981) 249
Martin, F., see C. Aime 39 (1981) 287
Martin, J.L., see A. Antonetti 38 (1981) 431
Martinez-Herrero, R., Object reconstruction for the "Fourier transform" optical system: uniqueness and characterization of data 36 (1981) 261
Martinez-Herrero, R. and P.M. Mejias, Relation between the expansions of the correlation function at the object and image planes for partially coherent illumination 37 (1981) 234
Marx, B.R., see P.T. Woods 33 (1980) 281
Marx, B.R., K.P. Birch, R.C. Felton, B.W. Jolliffe, W.R.C. Rowley and P.T. Woods, High-resolution spectroscopy of SO_2 using a frequency-doubled, continuous-wave dye laser 33 (1980) 287
Masalov, A.V. and S.S. Todirashku, Multi-frequency laser radiation and its non-linear power type interaction with matter 32 (1980) 497
Massmann, F., see H.J. Eichler 40 (1982) 302
Mast, F., see B. Schneeberger 31 (1979) 13
Mataloni, P., see C.H. Brito Cruz 39 (1981) 339

Matera, M., see R. Salimbeni 39 (1981) 75
Matera, M., see R. Buffa 40 (1982) 288
Mathieu, P., see P. Bernard 34 (1980) 101
Mathieu, P., see P. Bernard 37 (1981) 285
Mathur, V.K., see P.S. Mak 32 (1980) 485
Matoba, M., see Y. Kawamura 31 (1979) 178
Matsuda, I., see K. Midorikawa 32 (1980) 447
Matsuo, Y., see T. Kurobori 40 (1981) 156
Matsuoka, M., see H. Itoh 36 (1981) 131
Matsuoka, M., see H. Nakatsuka 36 (1981) 234
Mavrin, B.N., see V.N. Denisov 34 (1980) 357
Mavroyannis, C., Cooperative effects in the two atom resonance fluorescence spectrum 33 (1980) 42
Mavroyannis, C., see D.A. Hutchinson 38 (1981) 314
Mavroyannis, C., see D.A. Hutchinson 40 (1982) 391
Mayer, G., Light induced mechanical effects connected with Fresnel coefficients of drag? 31 (1979) 388
Mayer, G., see G. Hauchecorne 38 (1981) 185
Mayr, M., H. Risken and H.D. Vollmer, Periodic and chaotic breathing of pulses in a ringlaser 36 (1981) 480
Mays Jr., R. and R.J. Lysiak, Phase conjugated wavefronts by stimulated Brillouin and Raman scattering 31 (1979) 89
Mays Jr., R. and R.J. Lysiak, Observations of wavefront reproduction by stimulated Brillouin and Raman scattering as a function of pump and waveguide dimensions 32 (1980) 334
McAlpine, F.K., see S.L. Chin 31 (1979) 235
McCall, S.L. and H.M. Gibbs, Standing wave effects in optical bistability 33 (1980) 335
McClain, W.M., see R. Vasudev 38 (1981) 149, 348
McClelland, G., A. Miller, J. Dempsey and S.D. Smith, Intensity dependence of the rapidity of a CO_2 plasma shutter 31 (1979) 85
McClusky, F.K., see S.L. Chin 31 (1979) 235
McCown, A.W., M.N. Ediger and J.G. Eden, Quenching kinetics and small signal gain spectrum of the ZnI photodissociation laser 40 (1981) 190
McCrory, R.L., see B. Yaakobi 34 (1980) 213
McCrory, R.L., see B. Yaakobi 38 (1981) 196
McCrory, R.L., see B. Yaakobi 39 (1981) 175
McCrory, R.L., see W. Seka 40 (1982) 437
McDonald, D.B. and S.A. Rice, Measurement of the group refractive indices of several liquids 32 (1980) 416
McDonald, D.B., D. Waldeck and G.R. Fleming, Pulse structure studies and absolute cavity length determination for a synchronously pumped picosecond dye laser 34 (1980) 127
McGoldrick, E. and S.M.L. Sim, Time-resolved studies of $3/2\ \omega_0$ harmonic emission from laser-produced plasmas 39 (1981) 172
McGoldrick, E. and S.M.L. Sim, Observations of $\omega_0/2$ harmonic emission from 0.35 μm laser-irradiated plasmas 40 (1982) 433
McIver, J.K., see M.V. Fedorov 32 (1980) 179
McKay, J.A., see J.M. Herbelin 36 (1981) 63
McKen, D.C.D., see R. Fedosejevs 40 (1981) 35
Mehta, C.L., see S. Kumar 39 (1981) 197
Meier, U., see R. Schmiedl 31 (1979) 329
Meisel, G., see B. Burghardt 33 (1980) 169

Mejias, P.M., see R. Martinez-Herrero 37 (1981) 234
Melicksetyan, T.E., V.M. Arutunyan 36 (1981) 227
Meltzer, R.S., see L.A. Godfrey 34 (1980) 108
Méndez, J.A., see J. Bescós 37 (1981) 239
Mercier, R. and S. Lowenthal, Comparison of in-line and carrier frequency holograms in aspheric testing 33 (1980) 251
Meredith, G.R., Electric field induced harmonic generation: atmospheric effects 39 (1981) 89
Mermet, J.M., see D. Ohebsian 32 (1980) 81
Meron, P. and E. Marom, Goos-Haenchen effect and modal distribution in step-index optical fibers 39 (1981) 31
Merzon, G.I., see V.V. Blazhenkov 34 (1980) 231
Metiu, H., see A. Adams 34 (1980) 417
Meyer, R., see A. Hirth 34 (1980) 223
Meyer, R., see A. Hirth 35 (1980) 255
Meyer, R., see A. Hirth 40 (1981) 63
Meyer, Y.H., Multiple conical emission from near resonant laser propagation in dense sodium vapor 34 (1980) 439
Meyer, Y.H. and N.M. Nenchev, Tuning of dye lasers with a reflecting Fizeau wedge 35 (1980) 115
Meyer, Y.H., Fourier-limited pulses from a dye oscillator with an interferential wedge 39 (1981) 110
Maynial, D., see J. Launspach 38 (1981) 407
Meystre, P., see F.A. Hopf 31 (1979) 245
Meystre, P., see V. Benza 33 (1980) 113
Meystre, P., M.O. Scully and H. Walther, Transient line narrowing: a laser spectroscopic technique yielding resolution beyond the natural linewidth 33 (1980) 153
Meystre, P., see F.A. Hopf 33 (1980) 225
Meystre, P., see K.G. Weyer 37 (1981) 426
Meystre, P., see A.E. Kaplan 40 (1982) 229
Meystre, P., see L.A. Lugiato 40 (1982) 307
Michaelis, M.M. and O. Willi, Refractive fringe diagnostics of laser produced plasmas 36 (1981) 153
Midorikawa, K., I. Matsuda, M. Obara and T. Fujioka, Efficient energy extraction by super-radiant emission in NH_3 32 (1980) 447
Migliardo, P., see F. Aliotta 32 (1980) 274
Migus, A., see A. Antonetti 38 (1981) 431
Mihailescu, I.N., see I. Ursu 35 (1980) 96
Mihăilescu, I.N., see I. Ursu 39 (1981) 180
Milani, M., see L.A. Lugiato 40 (1982) 307
Milburn, G. and D.F. Walls, Production of squeezed states in a degenerate parametric amplifier 39 (1981) 401
Miler, M. and M. Skalsky, Chirped and curved grating coupler focusing both outgoing beam and guided wave 33 (1980) 13
Miles, R.B., see G. Laufer 31 (1979) 242
Miller, A., see G. McClelland 31 (1979) 85
Miller, A. and G.S. Ash, Two-photon absorption and short pulse stimulated recombination in $AgGaSe_2$ 33 (1980) 297
Miller, A., G.P. Perryman and A.L. Smirl, Picosecond optically-induced intervalence band absorption in germanium 38 (1981) 289
Miller, C.M., J.B. Cross and N.S. Nogar, Single photon photoionization mass spectroscopy via autoionizing resonances 40 (1982) 271

Miller, D.A.B. and S.D. Smith, Two beam optical signal amplification and bistability in InSb 31 (1979) 101
Miller, D.A.B., R.G. Harrison, A.M. Johnston, C.T. Seaton and S.D. Smith, Degenerate four-wave mixing in InSb at 5K 32 (1980) 478
Miller, D.A.B., S.D. Smith and B.S. Wherrett, The microscopic mechanism of third-order optical nonlinearity in InSb 35 (1980) 221
Milonni, P.W., see A.H. Paxton 34 (1980) 111
Minami, F. and K. Era, Near-infrared pulse generation in a synchronously modelocked CW dye laser 35 (1980) 393
Minemoto, T., T. Nozawa and Y. Fukuda, Stabilization for development of thermoplastic film in electron beam recording 36 (1981) 111
Minemoto, T. and T. Takahashi, Construction of a holographic deblurring filter using a thermoplastic film 38 (1981) 243
Minguzzi, P., see A. di Lieto 31 (1979) 25
Minkwitz, G., see R. König 32 (1980) 301
Minogin, V.G., Deceleration and monochromatization of atomic beams by laser radiation pressure 34 (1980) 265
Minogin, V.G., see V.S. Letokhov 35 (1980) 199
Minogin, V.G., Atomic scattering by a resonant standing light wave 37 (1981) 442
Minogin, V.G., V.S. Letokhov and T.V. Zueva, Hydrodynamical equations for atomic motion in a resonant light wave 38 (1981) 225
Miridonov, S.V., see M.P. Petrov 31 (1979) 301
Mirisola, R.S., see D.L. Rosen 35 (1980) 125
Mironenko, V.R. and V.I. Yudson, Quantum noise in intracavity laser spectroscopy 34 (1980) 397
Mirza, M.Y., see W.A. Young 31 (1979) 157
Mirza, M.Y., see W.A. Young 34 (1980) 353
Mirza, M.Y., see A.S. Naqvi 37 (1981) 356
Mirza, M.Y., see D .M. Bruce 40 (1982) 347
Mishin, V.I., see G.I. Bekov 35 (1980) 194
Mita, T., see M. Kuwata 40 (1982) 208
Mitsuhashi, Y., T. Morikawa, J. Shimada, K. Sakurai and S. Mitsutsuka, Polarization-rotated optical feedback in self-coupled optical pickup 34 (1980) 309
Miyamoto, T., Numerical analysis of a rib optical waveguide with trapezoidal cross section 34 (1980) 35
Miyazoe, Y., see M. Maeda 39 (1981) 64
Modovan, M., see I. Ursu 35 (1980) 96
Moers, F., see M. Brieger 38 (1981) 423
Moffatt, S. and A.L.S. Smith, High frequency optogalvanic signals and CO_2 laser stabilisation 37 (1981) 119
Moharam, M.G., T.K. Gaylord and R. Magnusson, Criteria for Bragg regime diffraction by phase gratings 32 (1980) 14
Moharam, M.G., T.K. Gaylord and R. Magnusson, Criteria for Raman-Nath regime diffraction by phase gratings 32 (1980) 19
Moi, L., see M. Allegrini 32 (1980) 91, 396
Moi, L., C. Fabre, P. Goy, M. Gross, S. Haroche, P. Encrenaz, G. Beaudin and B. Lazareff, Heterodyne detection of Rydberg atom maser emission 33 (1980) 47
Moldovan, M., see I. Ursu 39 (1981) 180
Molesini, G., see F. Quercioli 35 (1980) 303

Möller, R., see F.R. Aussenegg 40 (1982) 263
Monerie, M., see J.M. Dumant 33 (1980) 188
Moniyama, Y., see M. Maeda 39 (1981) 64
Moore, G.T., see T.G. Kuper 34 (1980) 117
Moreno, M., see G. Rodriquez 38 (1981) 10
Moretti, A., see M. Inguscio 32 (1980) 87
Moretti, A., see M. Inguscio 35 (1980) 64
Moretti, A., see M. Inguscio 37 (1981) 211
Morikawa, T., see Y. Mitsuhashi 34 (1980) 309
Morris, G.M., An ideal achromatic Fourier processor 39 (1981) 143
Morucci, J.P., see D. Lefkopoulos 40 (1982) 243
Mory, S., A. Rosenfeld, S. Polze and G. Korn, Nanosecond dye laser with a high-efficiency holographic grating for grazing incidence 36 (1981) 342
Mory, S., A. Rosenfeld and R. König, Generation of subnanosecond dye laser pulses of narrow line width by grazing-incidence on two gratings 38 (1981) 416
Moshkalev, S.A., see S.A. Batishche 38 (1981) 71
Mossberg, T.W., see R. Kachru 31 (1979) 223
Mostovnikov, V.A., see S.A. Batishche 38 (1981) 71
Mostowski, J. and M.G. Raymer, The buildup of stimulated Raman scattering from spontaneous Raman scattering 36 (1981) 237
Motschmann, U., see J. Herrmann 40 (1982) 379
Mourou, G., J. Bunkenburg and W. Seka, Electrooptic prepulse suppression for fusion laser systems 34 (1980) 252
Mourou, G., see M. Stavola 34 (1980) 404, 409
Mourou, G., see G.T. Harvey 36 (1981) 213
Mourou, G., see W. Knox 37 (1981) 203
Mourou, G., see T. Sizer II 37 (1981) 207
Mourou, G., see T. Sizer II 39 (1981) 259
Mourou, G., see G. Albrecht 40 (1981) 59
Movre, M., see D. Veza 34 (1980) 77
Movsessian, K.M., see A.H. Makarian 35 (1980) 147
Mozharovsky, A.M., see V.V. Blazhenkov 34 (1980) 231
Mudare, S.M., see J. Vanderwal 37 (1981) 33
Mukamel, S., D. Grimbert and Y. Rabin, Non-impact collisional broadening of resonance Raman spectra in strong radiation fields 40 (1982) 185
Mukamel, S. and D. Grimbert, On the density expansion of spectral lineshapes 40 (1982) 421
Müller, A., see Zs. Bor 40 (1982) 294
Müller, R., Bistable operation of multimode lasers containing saturable adsorbers 33 (1980) 326
Muller, R., see J. Etchepare 34 (1980) 269
Müller, R., Erratum 35 (1980) 298
Munir, Q., see E. Wintner 38 (1981) 230
Munir, W., E. Wintner and A.J. Schmidt, Optoacoustic detection of nonlinear absorption in glasses 36 (1981) 467
Murai, A., see N. Sokabe 34 (1980) 255
Muramoto, T., see S. Nakanishi 31 (1979) 344
Muramoto, T., S. Nakanishi, T. Endo and T. Hashi, Studies of phase characteristics of various photon echoes with a phase sensitive detection method 36 (1981) 409
Muramoto, T., see T. Endo 37 (1981) 369

Muramoto, T., see S. Nakanishi 38 (1981) 419
Murata, K., see N. Baba 38 (1981) 91
Murdoch, J., see A.J. Cole 36 (1981) 51
Musazzi, S., see M. Giglio 36 (1981) 117
Mutsutsuka, S., see Y. Mitsuhashi 34 (1980) 309
Mysyrowicz, A., see A. Antonetti 38 (1981) 431

Nagaeva, M.L., see G.A. Delone 33 (1980) 149
Naganuma, K., see Y. Ishida 39 (1981) 411
Nagawawa, N., see M. Kuwata 40 (1982) 208
Nagata, R., see H. Kubo 34 (1980) 306
Nail, M., see P. Valat 36 (1981) 378
Nakai, S., see Y. Kawamura 31 (1979) 178
Nakajima, N. and T. Asakura, Images of wedge-shaped objects under illumination of partially coherent light 37 (1981) 5
Nakamura, A., see Y. Ishida 39 (1981) 411
Nakanishi, S., O. Tamura, T. Muramoto and T. Hashi, Modulation of optical FID and structure of absorption line due to superhyperfine interaction in ruby 31 (1979) 344
Nakanishi, S., see T. Muramoto 36 (1981) 409
Nakanishi, S., see T. Endo 37 (1981) 369
Nakanishi, S., T. Edno, T. Muramoto and T. Hashi, Optical adiabatic rapid passage by linear frequency chirping in ruby 38 (1981) 419
Nakatsuka, H., M. Fujita and M. Matsuoka, Relaxation and quantum beat of picosecond backward echo in Na vapor 36 (1981) 234
Nakayama, S., G.W. Series and W. Gawlik, Zeeman effect in the polarization spectroscopy of Na 34 (1980) 382
Nakayama, S., G.W. Series and W. Gawlik, Larmor precession in polarization spectroscopy with spatially separated beams 34 (1980) 389
Nalimov, I.P., see V.M. Antonov 38 (1981) 81
Napartovich, A.P., see V.V. Likhansky 32 (1980) 309
Naqvi, A.S., M.Y. Mirza, D.J. Semple and W.W. Duley, Narrow 3-photon autoionizing resonances in Tl and Yb 37 (1981) 356
Narducci, L.M., see R. Bonifacio 31 (1979) 377
Narducci, L.M., see J.D. Farina 32 (1980) 203
Narducci, L.M., see G.S. Agarwal 36 (1981) 285
Narducci, L.M., see L.A. Lugiato 39 (1981) 405
Nasibov, A.S., see O.I. Potaturkin 40 (1982) 164
Nassisi, V., see A. Luches 39 (1981) 307
Natu, S. and D. Casasent, Sensitometry control of a hybrid field-effect liquid light valve 31 (1979) 135
Naumenkov, P.A., see S.A. Batishche 38 (1981) 71
Nawata, K., see T. Kanada 31 (1979) 81
Nayfeh, M.H., see W. Glab 38 (1981) 262
Nenchev, N.M., see Y.H. Meyer 35 (1980) 115
Neukammer, J., H. Rinneberg and Z.X. Zhang, Suppression of crossover signals by modulated lower level population 38 (1981) 361
Neumann, R. and H. Haug, Calculation of the photon-anticorrelation effect in a degenerate optical parametric amplifier 31 (1979) 267
New, G.H.C., Fifth harmonic generation mechanism in a two-species system 38 (1981) 189

Newitt, D.C. and N.B. Abraham, Intensity fluctuations of amplified spontaneous emission 31 (1979) 393
Neyer, A., see H.F. Schlaak 32 (1980) 72
Neyer, A. and E. Voges, Nonlinear electroopic oscillator using an integrated interferometer 37 (1981) 169
Ng, A., A.A. Offenberger and S.J. Kartlunen, Reduced Brillouin backscatter in CO_2 laser–target interaction 36 (1981) 200
Ngai, K., see D.G. Seiler 31 (1979) 340
Nguyen ai Viet, see Nguyen van Hieu 33 (1980) 91
Nguyen van Hieu and Nguyen ai Viet, Third-order optical harmonic coefficients of atomic hydrogen at low frequencies 33 (1980) 91
Ni Y.C. and J. Heppner, New cw laser lines from CO_2-laser pumped CH_3OD 32 (1980) 459
Niay, P., see P. Bernage 36 (1981) 241
Nickles, P.V., see G.Ya. Zueva 35 (1980) 218
Nickolov, Zh.S., se A.M. Chekalyuk 38 (1981) 177
Nicolosi, P., see G. Tondello 32 (1980) 281
Nicolson, J.P. and S.B. Charnley, Dynamic response of twisted nematic liquid crystal cells to transiently pulsed fields 40 (1982) 283
Niemax, K., see K.-H. Weber 31 (1979) 52
Niemax, K., see C.-J. Lorenzen 33 (1980) 271
Niemax, K., see R. Hotop 36 (1981) 35
Niemax, K., see C.-J. Lorenzen 39 (1981) 370
Nieto-Vesperinas, M. and N. García, Exact multiple scattering of waves from random rough surfaces: speckle contrast 32 (1980) 217
Nieto-Vesperinas, M. and N. García, Non-circular gaussian contrast in the exact theory of multiple scattering of waves from random rough surfaces 35 (1980) 25
Nieto-Vesperinas, M., M.A. Vences, G. Ross and M.A. Fiddy, The formulation of the Huygens–Fresnel description of light propagation in terms of the theory of generalized analytic functions 36 (1981) 169
Nikolic', K., see A. Alexic 40 (1982) 353
Nikiforov, S.M., see S.S. Alimpiev 31 (1979) 309
Nikitine, S., On a possible "crystallized" state of exciton matter 35 (1980) 377
Nilsen, J. and A. Yariv, A tunable narrowband optical filter via phase conjugation by non-degenerate four-wave mixing in a doppler-broadened resonant medium 39 (1981) 199
Nippus, M., Evaluation of the modulation index of the standing wave Raman-Nath mode-locking device 33 (1980) 80
Niquet, G., see G. Chambrier 32 (1980) 105
Nishihara, H. and J. Koyama, New technique to record and playback holographic color video memories 31 (1979) 16
Nitsch, W., see F.R. Aussenegg 37 (1981) 59
Nogar, N.S., see C.M. Miller 40 (1982) 271
Noid, D.W., see J.R. Stine 31 (1979) 161
Noid, D.W. and J.R. Stine, The excitation of HF by two polarized lasers and the effect of laser power 37 (1981) 187
Norris, B., see R.A. Wood 33 (1980) 89
Novak, M.N., Covariance of the field equations and the mass of the photon 38 (1981) 1
Novaro, M., see J. Sauteret 32 (1980) 169
Novikov, M.A., see Ya.I. Khanin 32 (1980) 456
Novikov, V.P., see Ya.I. Khanin 32 (1980) 456

Nozawa, T., see T. Minemoto 36 (1981) 111
Nozoe, Y., see Y. Ohtsuka 35 (1980) 157

Obara, M., see K. Midorikawa 32 (1980) 447
Odoulov, S., see N. Kukhtarev 32 (1980) 183
Odoulov, S., M. Soskin and M. Vasnetsov, Compensation for time dependent phase inhomogeneity via degenerate four-wave mixing in $LiTaO_3$ 32 (1980) 355
Odoulov, S.G., see R. Grousson 39 (1981) 219
Offenberger, A.A., see A. Ng 36 (1981) 200
Offenberger, A.A., see R. Fedosejevs 40 (1981) 35
Ogura, I., see M. Itoh 33 (1980) 183
Ohashi, T., see M. Imai 39 (1981) 7
Ohebsian, D., N. Sadeghi, C. Trassy and J.M. Mermet, Kinetic reactions involving the titanium atoms in an argon-titanium hollow cathode afterglow 32 (1980) 81
Ohnuma, K., T. Honda and J. Tsujiuchi, Dynamic range of a thermoplastic photoconductor hologram 36 (1981) 1
Ohnuma, K., T. Honda and J. Tsujiuchi, Different scale correlation on aerial photographs by a rotating picture in coherent matched filtering 37 (1981) 339
Ohtsubo, J., Velocity measurement using the time-space cross-correlation of speckle patterns 34 (1980) 147
Ohtsuka, Y., A. Tanone and K. Itoh, New visualization method of progressive acoustic wavefronts using a Köster prism 31 (1979) 9
Ohtsuka, Y., see K. Itoh 31 (1979) 125
Ohtsuka, Y., see M. Imai 33 (1980) 4
Ohtsuka, Y., Partial coherence of light modified by a frequency-modulated ultrasonic wave 35 (1980) 4
Ohtsuka, Y., Y. Nozoe and Y. Imai, Acoustically modified spatial coherence in optical Fresnel diffraction region 35 (1980) 157
Ohtsuka, Y., see K. Itoh 36 (1981) 250
Ohtsuka, Y., see H. Fujii 36 (1981) 255
Ohtsuka, Y., see M. Imai 39 (1981) 7
Ohtsuka, Y. and A. Tanone, Acousto-optic intensity modification of a gaussian laser beam 39 (1981) 70
Ohtsuka, Y., Non-modified propagation of optical mutual intensity in the Fresnel diffraction region 39 (1981) 283
Ohyama, N., T. Honda and J. Tsujiuchi, Tomogram reconstruction using advanced coded aperture imaging 36 (1981) 434
Ohzu, H., see S. Komatsu 39 (1981) 357
Okada, K., see T. Honda 36 (1981) 11
Okada, K., T. Honda and J. Tsujiuchi, 3-D distortion of observed images reconstructed from a cylindrical holographic stereogram. (2) White light reconstruction type 36 (1981) 17
Okada, M., Optical regenerative oscillation and monostable pulse generation in hybrid bistable optical devices 34 (1980) 153
Okada, M., Reduction of the switching energy in electrooptic bistable devices 35 (1980) 31
Olbertz, A.H.M., see B.J.M. Bormans 34 (1980) 431
O'Leary, S.V., see P. Ewart 40 (1981) 147
Onoda, Y., see H. Kuwahara 40 (1981) 99
Oomen, G.L. and W.J. Witteman, A coaxial e-beam excitation system for high power excimer lasers 32 (1980) 461

Oomen, G.L., see W.J. Witteman 32 (1980) 467
Oppenheim, U.D., see G. Koren 31 (1979) 321
Oppenheim, U.P., see G. Koren 38 (1981) 265
Oppenheimer, U.P., see G. Koren 32 (1980) 257
Orlowski, R., L.A. Boatner and E. Krätzig, Photofractive effects in the cubic phase of potassium tantalate-niobate 35 (1980) 45
Orriols, G., see R. Corbalán 38 (1981) 113
Orriols, G., see R. Corbalán 40 (1981) 29
Orszag, A., see J. Etchepare 34 (1980) 269
Ortega, J.M., see D.A.C. Deacon 40 (1982) 373
Ortiz, L., see G. Rodriquez 38 (1981) 10
Osato, K., see S. Komatsu 39 (1981) 357
Osipowicz, A. and G. Werth, (6P-5D)-branching ratio in Ba II 36 (1981) 359
Ouhayoun, M., see A. Clairon 35 (1980) 368
Overhauser, A.W., see K. Drühl 38 (1981) 393
Owen, M.P. and L. Solymar, Efficiency of volume phase reflection holograms recorded in an attenuating medium 34 (1980) 321

Pacheva, Y., P. Pramatarov and M. Stefanov, Laser generation of the AR II 4765 Å line in a He–Ar hollow cathode discharge 31 (1979) 203
Pak, I., see V.G. Koloshnikov 35 (1980) 213
Palange, E., see C.H. Brito Cruz 39 (1981) 331
Palange, E., see C.H. Brito Cruz 40 (1982) 298
Palma, A., see A. Alippi 35 (1980) 37
Palma, A., see G. Guidarelli 39 (1981) 15
Palma, A., see A. Alippi 40 (1981) 19
Palmieri, L., see A. Alippi 35 (1980) 37
Palmieri, L., see G. Guidarelli 39 (1981) 15
Palmieri, L., see A. Alippi 40 (1981) 19
Panfilov, V.N., see P.L. Chapovsky 40 (1981) 129
Panock, R., see P.F. Liao 34 (1980) 195
Parfenov, A.V., see I.N. Kompanets 36 (1981) 415, 417
Parfyonov, A.V., see O.V. Garibyan 38 (1981) 67
Park, Y.K. and R.L. Byer, Electronic linewidth narrowing method for single axial mode operation of Q-switched Nd: YAG lasers 37 (1981) 411
Parmigiani, F., Phase dependence of the Michelson interferometer outputs on the absorbing beam splitter thickness 38 (1981) 319
Parzyński, R., Polarized nuclei from unpolarized atoms two-photon resonantly ionized via hyperfine structure energy levels 34 (1980) 361
Pascale, D., see J. Lapierre 40 (1981) 95
Pascher, H., R. Ebert and H.G. Häfele, Spin resonant optical mixing in InSb – cw-measurements and transient effects 32 (1980) 151
Pascher, H., see W. Richter 35 (1980) 233
Pasedach, K. and E. Haase, Random and guided generation of coherent two-dimensional codes 36 (1981) 423
Patel, C.K.N., see E.D. Shaw 33 (1980) 221
Paul, H., see W. Brunner 31 (1979) 214
Paul, H., see S. Raab 32 (1980) 133

Paul, H., see W. Brunner 35 (1980) 421
Pauty, M., see G. Chambrier 32 (1980) 105
Pavlopoulos, T.G., The dye mixture perylene/rhodamine 110 38 (1981) 299
Pavlopoulos, T.G., A figure of merit for laser dyes 38 (1981) 397
Paxton, A.H. and P.W. Milonni, Semiclassical theory of three-level gas lasers 34 (1980) 111
Payen de la Garanderie, H., see A. Alexic 40 (1982) 353
Payne, M.G., see C.H. Chen 32 (1980) 391
Pegg, D.T., Pulsed differential excitation of atoms 37 (1981) 353
Pencheva, T.G., M.P. Petrov and S.I. Stepanov, Selective properties of volume phase holograms in photorefractive crystals 40 (1982) 175
Pendrill, L.R., see C.-J. Lorenzen 39 (1981) 370
Penselin, S., see B. Burghardt 33 (1980) 169
Penzkofer, A. and J. Wiedmann, Orientation of transition dipole moments of rhodamine 6G determined by excited state absorption 35 (1980) 81
Penzkofer, A., see W. Blau 36 (1981) 419
Penzkofer, A., J. Kraus and J. Sperka, Noncollinear matched four photon frequency mixing in water 37 (1981) 437
Perera, I.K., see B.K. Deka 32 (1980) 295
Perera, I.K., see B.K. Deka 37 (1981) 127
Periasamy, N. and Zs. Bor, Distributed feedback laser action in an optical fiber by evanescent field coupling 39 (1981) 298
Perini, U., see M. Giglio 36 (1981) 117
Perrone, A., see A. Luches 39 (1981) 307
Perrone, M.R., see A. Luches 39 (1981) 307
Perry, P.D. and R.E. Fern, Computer assisted enhanced reflectance data acquisition 37 (1981) 1
Perryman, G.P., see A. Miller 38 (1981) 289
Pert, G.J., see D. Jacoby 37 (1981) 193
Petelin, M.I., see Ya.L. Bogomolov 36 (1981) 209
Petersen, H., The plane grating and elliptical mirror: a new optical configuration for monochromators 40 (1982) 420
Peterson, G.L., see C.D. Cantrell 40 (1982) 413
Petrash, G.G., see M.A. Kazaryan 33 (1980) 209
Petroff, Y., see D.A.C. Deacon 40 (1982) 373
Petrov, M.P., S.V. Miridonov, S.I. Stepanov and V.V. Kulikov, Light diffraction and nonlinear image processing in electrooptic $Bi_{12}SiO_{20}$ crystals 31 (1979) 301
Petrov, M.P. and A.V. Khomenko, Space-time modulation characteristics of optical transducers 37 (1981) 253
Petrov, M.P., see T.G. Pencheva 40 (1982) 175
Petuchowski, S.J. and C.C. Davis, Selective trace detection of asymmetric rotor molecules by Stark-modulated phase fluctuation optical heterodyne spectroscopy 38 (1981) 26
Pfeiffer, M., see A. Lau 32 (1980) 75
Pfeiffer, M. and A. Lau, The influence of coherence effects on measurements of saturable absorption with broadband radiation 34 (1980) 63
Pfeiffer, M., see A. Lau 38 (1981) 139
Piazzola, S. and G. de Marchis, Spatial coherence in optical fibers 32 (1980) 380
Pizzolla, S., see B. Daino 38 (1981) 340
Piche, M. and P.A. Belanger, Mode-locking of homogeneous gain lasers: closed form solutions 35 (1980) 137

Pichler, G., see D. Veza 34 (1980) 77
Pichon, L. and J.P. Huignard, Dynamic joint-Fourier-transform correlator by Bragg diffraction in photorefractive $Bi_{12}SiO_{20}$ crystals 36 (1981) 277
Pidgeon, C.R., see R.A. Wood 33 (1980) 89
Pidgeon, C.R., see R.A. Wood 35 (1980) 105
Pidgeon, C.R., see B.W. Davis 37 (1981) 303
Pietras, J., see J. Liran 31 (1979) 169
Pilipetsky, N.F., V.I. Popovivech and V.V. Ragulsky, The reproduction of weak components of a light field at stimulated scattering 31 (1979) 97
Pilipetsky, N.F., see V.N. Blaschuk 31 (1979) 383
Pilipetsky, N.F. and V.V. Shkunov, Narrowband four-wave reflecting filter with frequency and angular tuning 37 (1981) 217
Pilipetsky, N.F., A.V. Sukhov, N.V. Tabiryan and B.Ya. Zel'dovich, The orientational mechanism of nonlinearity and the self-focusing of He–Ne laser radiation in nematic liquid crystal mesophase (theory and experiment) 37 (1981) 280
Pilipetsky, N.F., see O.V. Garibyan 38 (1981) 67
Pilipetsky, N.F., V.I. Popovichev and V.V. Ragulsky, Comparison of the amplification coefficients of conjugate and non-conjugate waves in stimulated light scattering 40 (1981) 73
Pillet, P., see A. Crubellier 33 (1980) 143
Piper, J.A., CW laser oscillation on transitions of As^+ in He–AsH_3 gas discharge 31 (1979) 374
Piper, J.A., see F.J. Duarte 35 (1980) 100
Pique, J.P., F. Stoeckel and F. Hartmann, Hyperfine structure of $^{127}I_2$ and $^{129}I_2$ optical absorption lines 33 (1980) 23
Pique, J.P., F. Hartmann, R. Bacis and S. Churassy, Hyperfine structure of higher rovibrational levels in the iodine B state studied by Ar^+ laser induced fluorescence 36 (1981) 354
Pirodda, L., Ultra-sound visualization by a simple technique 32 (1980) 279
Plumelle, F., M. Desaintfuscein, J.L. Duchene and C. Audoin, Laser probing of ions confined in a cylindrical radiofrequency trap 34 (1980) 71
Pocholle, J.P., Single mode optical fiber characterisation by the LP_{11} mode radiation pattern 31 (1979) 143
Podobedov, V.B., see V.N. Denisov 34 (1980) 357
Pogossian, P.S., see A.H. Makarian 35 (1980) 147
Pollock, C.R., see W. Gellermann 39 (1981) 391
Polushnik, I.N., see Ya.I. Khanin 32 (1980) 456
Polze, S., see S. Mory 36 (1981) 342
Popov, A.K., V.M. Shalaev, Doppler-free transition induced by strong double-frequency optical excitation 35 (1980) 189
Popov, A.K., see Yu.I. Heller 38 (1981) 345
Popov, Yu.M., see I.N. Kompanets 36 (1981) 415, 417
Popovivech, V.I., see N.F. Pilipetsky 31 (1979) 97
Popovivech, V.I., see N.F. Pilipetsky 40 (1981) 73
Porter, R.P., Determination of structure of weak scatterers from holographic images 39 (1981) 362
Po-Shiang, L., see A.W. Lohmann 34 (1980) 167
Post, B.H., see E.R. Eliel 36 (1981) 366
Post, B.H., see E.R. Eliel 39 (1981) 41
Potaturkin, O.I. and V.I. Khotskin, Diffraction correlators invariant to the shift of optical elements 34 (1980) 159
Potaturkin, O.I., B.I. Spector, V.I. Kozlovsky, A.S. Nasibov, P.V. Reznikov and Ya.K.

Skasirsky, Holographic intensity correlator using a laser cathode-ray tube 40 (1982) 164
Pottier, L., see M.A. Bouchiat 37 (1981) 229, 265
Pouligny, B., J.R. Lalanne, B. Couillaud, A. Ducasse and L. Sarger, Picosecond saturation spectroscopy in microemulsions 37 (1981) 271
Povedailo, V.A., see N.A. Borisevich 33 (1980) 203
Pradhan, M.M., R.K. Garg and V.G. Bhide, Remote sensing of temperature by a TGS pyro-electric detector 40 (1982) 361
Pramatarov, P., see Y. Pacheva 31 (1979) 203
Preobrazhensky, M.A., see N.B. Delone 36 (1981) 459
Prieto, A., see J. Bescós 37 (1981) 239
Primejdie, V., see R. Chisleag 39 (1981) 351
Prior, M.H. and R.D. Knight, Fluorescence of optically pumped trapped ions 35 (1980) 54
Prod'homme, L., see P. Croce 35 (1980) 20
Prokhorov, A.M., see S.S. Alimpiev 31 (1979) 309
Prokhorov, A.M., see I. Ursu 35 (1980) 96
Prokhorov, A.M., see I. Ursu 39 (1981) 180
Prokhorov, P.V., see G.Ya. Zueva 35 (1980) 218
Psaltis, D., F. Caimi, D. Casasent and A. Goutzoulis, Decimal/residue conversion by time-integrating correlation 36 (1981) 178
Puell, H., see H. Langer 34 (1980) 137
Puretzky, A.A., see R.V. Ambartzumian 34 (1980) 81
Puri, A. and J.L. Birman, Extinction theorem, boundary conditions and dispersion equations in bounded gyrotropic media 37 (1981) 81
Puri, R.R., S.V. Lawande and S.S. Hassan, Dispersion in the driven Dicke model 35 (1980) 179

Quattropani, A., see A.M.J. Huiser 37 (1981) 307
Quercioli, F. and G. Molesini, Contrast reversal with a point-diffraction interferometer with a carrier frequency 35 (1980) 303

Raab, S., K. Hoffmann, W. Brunner and H. Paul, Mode competition effects in injection lasers 32 (1980) 133
Rabal, H.J., N. Bolognini, E.E. Sicre and M. Garavaglia, Optical image substraction through speckle modulated by Young fringes 34 (1980) 7
Rabal, H.J., see N. Bolognini 34 (1980) 337
Rabal, H.J., E.E. Sicre, N. Bolognini and M. Garavaglia, A speckle method of gray level pseudocoloring 39 (1981) 225
Rabbani, M., see B.E.A. Saleh 35 (1980) 327
Rabin, Y., see S. Mukamel 40 (1982) 185
Rabin, Y. and F. Rebentrost, On the self-shift and broadening of Doppler-free Rydberg ^2S spectral lines in alkali atoms 40 (1982) 257
Rácz, B., Zs. Bor. S. Szatmári and G. Szabó, Comparative study of beam expanders used in nitrogen laser pumped dye laser 36 (1981) 399
Rácz, B., see Zs. Bor 40 (1982) 294
Radloff, W. and H.-H. Ritze, Competition effects in Doppler-free intracavity polarization spectroscopy 35 (1980) 203
Radzewicz, C., see S.G. Dinev 32 (1980) 313
Raether, H., see D.L. Hornauer 40 (1981) 105
Ragulsky, V.V., see N.F. Pilipetsky 31 (1979) 97

Ragulsky, V.V., see N.F. Pilipetsky 40 (1981) 73
Raimond, J.-M., see S. Avrillier 39 (1981) 311
Ráj, R.K., see D. Bloch 37 (1981) 183
Ram, J. and K.P. Jagannatha Reddy, Theory of internally pumped modelocked cw dye laser 33 (1980) 323
Ramsden, S.A., see D. Jacoby 37 (1981) 193
Ramsmeyer, E., see H. Royer 37 (1981) 84
Ranea Sandoval, H.F., see P. Burlamacchi 31 (1979) 185
Ranea Sandoval, H.F., see R. Buffa 40 (1982) 288
Rateike, M., see K.G. Weyer 37 (1981) 426
Raue, R., see W. Hüffer 33 (1980) 85
Raven, A., see C. Duncan 35 (1980) 384
Raymer, M.G., see J. Mostowski 36 (1981) 237
Razdobarin, G.T., see S.A. Batishche 38 (1981) 71
Reali, G.C., The mode-locked unstable resonator YAG laser 35 (1980) 264
Rebentrost, F., see C.D. Cantrell 36 (1981) 303
Rebentrost, F., see Y. Rabin 40 (1982) 257
Rebhan, U. and J. Hildebrandt, Injection of a N_2-laser excited oscillator into a flash lamp pumped dye ring laser 31 (1979) 69
Reckie, S., see D.L. Rosen 35 (1980) 125
Reddy, K.P.K., Combined AM and synchronous mode locking of CW dye laser 37 (1981) 80
Redon, M., C. Gastaud and M. Fourrier, New CW FIR laser action in Stark tuned ammonia and Stark FIR lasing spectroscopy in the ν_2 band 34 (1980) 455
Reintjes, J., L.L. Tankersley and R. Christensen, Generation of coherent radiation at 61.6 nm by fifth harmonic conversion of radiation from a XeCl laser 39 (1981) 334
Reiser, D., see W. Kranitzky 39 (1981) 321
Reits, B.J., Parametric measurements of a doped CO_2 TEA laser 33 (1980) 75
Rendell, R.W., see A. Adams 34 (1980) 417
Renieri, A., see G. Dattoli 34 (1980) 240
Renieri, A., see G. Dattoli 35 (1980) 245, 407
Renieri, A., see G. Dattoli 39 (1981) 328
Renn, A., see M. Brieger 38 (1981) 423
Ressayre, E., see M. Leberre-Rousseau 36 (1981) 31
Reuven, Y. and M. Baer, A theoretical approach to saturation effects in lasers 32 (1980) 320
Reuven, Y., see I. Last 39 (1981) 83
Reynolds, G.A., see W. Kranitzky 36 (1981) 149
Reznikov, P.V., see O.I. Potaturkin 40 (1982) 164
Rhodes, C.K., see M. Rothschild 39 (1981) 316
Rhodes, W.T., see H.J. Caulfield 40 (1981) 86
Riant, Y., see M. Lyszyk 37 (1981) 53
Ribeiro Teixeira, S., see O. Techke 32 (1980) 287
Ribezzo, S., see E. Borsella 39 (1981) 365
Rice, R.R., see T. Sizer II 37 (1981) 207
Rice, S.A., see D.B. McDonald 32 (1980) 416
Richardson, M.C., see B. Yaakobi 39 (1981) 175
Richter, J., see R. Hotop 36 (1981) 35
Richter, W., H. Pascher and H.G. Häfele, Q-switch pumped InSb spin-flip Raman laser action under pulsed electric field conditions 35 (1980) 233

Ricort, G., see C. Aime 35 (1980) 169
Ricort, G., see C. Aime 39 (1981) 287
Rineberg, H., see J. Neukammer 38 (1981) 361
Ripoche, G., see P. Valat 36 (1981) 378
Risken, H., see M. Mayr 36 (1981) 480
Ristori, P., see G. Guiliani 35 (1980) 109
Ritter, D., see H.-J. Lilienhof 35 (1980) 49
Ritze, H.-H., see A. Bandilla 32 (1980) 195
Ritze, H.-H., see A. Bandilla 34 (1980) 190
Ritze, H.-H., see W. Radloff 35 (1980) 203
Rizzo, J.E., see W. Seka 34 (1980) 469
Robinson, K.E., see D.A.G. Deacon 40 (1982) 373
Roblin, G., see M. Allain 39 (1981) 113
Roblin, M.L., see N.G. Gaggioli 32 (1980) 209
Roblin, M.L., see B. Jean 33 (1980) 123
Roblin, M.L., see B. Jean 37 (1981) 248
Roddier, C., see A.H. Greenaway 32 (1980) 48
Rodriguez, G., L. O. Ortiz and M. Moreno, White light pseudocolour density encoding by clear raster 38 (1981) 10
Roger, A., Grating profile optimizations by inverse scattering methods 32 (1980) 11
Roger, A. and M. Breidne, Grating profile reconstruction by an inverse scattering method 35 (1980) 299
Roger, G., see A. Aspect 34 (1980) 46
Rogers, G.L., see R.M. Vasu 35 (1980) 175
Röhr, H., see H. Langer 34 (1980) 137
Roland, P.A., see A.S. Subdø 37 (1981) 417
Romagnoli, M., see C.H. Brito Cruz 39 (1981) 339
Roman, M., see W. Gadomski 33 (1980) 331
Romanelli, F., see G. Dattoli 34 (1980) 240
Romanelli, F., see G. Dattoli 35 (1980) 245
Romanelli, F., see F.T. Arecchi 36 (1981) 144
Rosanov, N.N. and V.E. Semenov, The kinetics of the hysteresis change of the beamprofile in non-linear interferometers 38 (1981) 435
Rose, B.R., see J.R. Brandenberger 36 (1981) 453
Rosen, D.L., S. Reckie, R.C. Mirisola, P.P. Ho, A.F. Doukas and R.R. Alfano, Factors contributing to the deterioration of DODCI 35 (1980) 125
Rosenfeld, A., see S. Mory 36 (1981) 342
Rosenfeld, A., see S. Mory 38 (1981) 416
Roso, L., see R. Corbalan 38 (1981) 113
Roso, L., see R. Corbalán 40 (1981) 29
Ross, G., see M. Nieto-Vesperinas 36 (1981) 169
Roth, S. and I. Freud, Coherent optical harmonic generation in rat-tail tendon 33 (1980) 292
Rothschild, M., J. Zavelovich, W. Gornik and C.K. Rhodes, Four-photon pressure-induced ionization by Xe by 351-nm radiation 39 (1981) 316
Rottke, H., see H. Zacharias 35 (1980) 185
Rottke, H., see H. Zacharias 37 (1981) 15
Rovera, G., see N. Beverini 37 (1981) 394
Rowley, W.R.C., see B.R. Marx 33 (1980) 287
Rowley, W.R.C., K.C. Shotton and P.T. Woods, Comment on "Confirmation of the

currently accepted value 299 792 458 metres per second for the speed of light", by K.M. Baird, D.S. Smith and B.C. Whitford 34 (1980) 429
Roy, G., M. Blanchard and R. Tremblay, High-pressure amplified stimulated emission effect in a N_2 laser produced plasma with axicon lenses 33 (1980) 65
Roy, G. and R. Tremblay, Influence of the divergence of a laser beam on the axial intensity distribution of an axicon 34 (1980) 1
Roy, R. and M.S. Zubairy, Analytic solutions of the optical bistability equations for a standing wave cavity 32 (1980) 163
Roy, R. and L. Mandel, Optical bistability and first order phase transition in a ring dye laser 34 (1980) 133
Roy, R. aand L. Mandel, Effect of backscattering on the behaviour of a dye ring laser 35 (1980) 247
Royer, H., P. Lecoq and E. Ramsmeyer, Application of holography to bubble chamber visualization 37 (1981) 84
Royt, T.R., Passive mode-locking of the Nd-glass oscillator at high repetition rate with thermally compensated phosphate glasses 35 (1980) 271
Rudolph, W. and H. Weber, Analysis of saturable absorbers, interacting with gaussian pulses 34 (1980) 491
Rukavina, J., see D. Veza 34 (1980) 77
Rumbsy, P.T., see C. Duncan 35 (1980) 384
Rumbsy, P.T., see O. Willi 37 (1981) 40, 45
Runge, S. and N. Wolffer, A tunable, frequency-doubled cw dye laser using and RDP crystal 32 (1980) 489
Rupasov, V.I., see V.M. Agranovich 37 (1981) 363
Rustagi, K.C. and P.K, Gupta, Effect of gaussian intensity profiles on difference-frequency generation 33 (1980) 103
Ruterbusch, P.H., A.L. Zhuang and F.T.S. Yu, Progress report on archival storage of color films by a one-step rainbow holographic process 37 (1981) 335
Rutt, H.N., Optically pumped laser action in perchloryl fluoride 34 (1980) 434
Ryabov, E.A., see V.N. Bagratashvili 38 (1981) 31

Saari, P., J. Aaviksoo, A. Freiberg and K. Timpmann, Elimination of excess pulse broadening at high spectral resolution of picosecond duration light emission 39 (1981) 94
Sabotinov, N.V., see M.G. Grozeva 31 (1979) 211
Sadeghi, H., see D. Ohebsian 32 (1980) 81
Sagan, A.G., see H. Mahr 39 (1981) 269
Saget, J.C., see J. Brunol 35 (1980) 311
Saha, S.K., Phase-matched field-induced second-harmonic generation in cholesteric liquid crystals 37 (1981) 373
Said, M.G., The effect of continuous illumination of photoconductivity in undoped amorphous silicon 33 (1980) 179
Saikan, S., see H. Wakata 38 (1981) 271
Saito, H., see T. Yatagai 38 (1981) 162
Saito, T., see S. Ueha 34 (1980) 340
Sakai, K., see T. Yoshida 40 (1981) 45
Sakajiri, M., see Y. Kawamura 31 (1979) 178
Sakuma, I., see T. Furuse 35 (1980) 413
Sakurai, K., see Y. Mitsuhashi 34 (1980) 309
Salamon, T.I., see D. Schmieder 36 (1981) 223

Salashchenko, N.N., see S.V. Gaponov 38 (1981) 7
Saldin, D.K., see T. Wilson 39 (1981) 11
Saleh, B.E.A. and M. Rabbani, Linear filtering of speckled images 35 (1980) 327
Salimbeni, R., M. Matera, M. Vannini and P. Burlamacchi, XeCl laser operation with liquid chlorine donors: an experimental investigation on the gas composition 39 (1981) 75
Salimbeni, R., see R. Buffa 40 (1982) 288
Salk, J., see H.J. Eichler 34 (1980) 228
Salomon, C., see A. Clairon 35 (1980) 368
Saltiel, S.M., see V.L. Lyutskanov 37 (1981) 149
Saltiel, S.M., S.D. Savov, I.V. Tomov and L.S. Telegin, Subnanosecond pulse duration measurements by noncollinear second harmonic generation 38 (1981) 443
Salvetti, G., see E. Borsella 39 (1981) 365
Sam, C.L. and M.L. Shand, Photoacoustic spectroscopy of solids immersed in transparent liquids 31 (1979) 174
Sanchez Gomez, M. and J.M. Guerra Perez, The ACDF. A new class of lasing dyes 40 (1981) 144
Sanders, J.H., see F.W. Dalby 37 (1981) 261
Sandle, W.J., see R.J. Ballagh 37 (1981) 143
Santamaria, J., see J. Bescós 37 (1981) 239
Santavicca, D., see G. Laufer 31 (1979) 242
Santi, D., see G. Tondello 32 (1980) 281
Santos, M., see P. Garcia-Fernández 40 (1982) 451
Sargent III., M., see S.T. Hendow 40 (1982) 385
Sarger, L., see B. Pouligny 37 (1981) 271
Sarkies, P.H., A stable YAG resonator yielding a beam of very low divergence and high output energy 31 (1979) 189
Sarkissyan, E.M., see V.M. Arutunyan 36 (1981) 227
Sartakov, B.G., see S.S. Alimpiev 31 (1979) 309
Sasaki, M., see H. Kuwahara 40 (1981) 99
Sathianandan, K., see P.J. Sebastian 32 (1980) 422
Sathianandan, K., see P.K. Sebastian 35 (1980) 113
Sato, H. and N. Suzuki, Factorial moment of the photon counting distribution of gaussian-lorentzian light under various spatial coherence 33 (1980) 173
Sauneuf, R., see J. Brunol 31 (1979) 129
Sauteret, J. and M. Novaro, Direct measurement of the quadratic phase evolution in a mode-locked Nd-YAG laser pulse 32 (1980) 169
Savino, P., see M. Allegrini 32 (1980) 396
Savino, P., see M. Allegrini 36 (1981) 449
Savov, S.D., see V.L. Luytskanov 37 (1981) 149
Savov, S.D., see S.M. Saltiel 38 (1981) 443
Sawyers, C.G., see D.C. Hanna 37 (1981) 359
Sawyers, C.G., see A.J. Berry 40 (1981) 54
Saxena, R. and G.S. Agarwal, Resolution beyond natural linewidth via fluorescence in modulated beams 40 (1982) 357
Saykally, R.J., see M.H. Begemann 40 (1982) 277
Sceats, M.G., see M. Stavola 34 (1980) 409
Schäfer, G., see Gürs 33 (1980) 197
Schawlow, A.L., see W.T. Hill III 32 (1980) 96
Schawlow, A.L., see N.W. Carlson 32 (1980) 350

Schawlow, A.L., see D.R. Lyons 38 (1981) 35
Schawlow, A.L., see T.W. Hänsch 38 (1981) 47
Schawlow, A.L., see A.J. Taylor 39 (1981) 47
Schawlow, A.L., see H.-R. Xia 39 (1981) 153
Scheingraber, H. and C.R. Vidal, Near resonant third harmonic generation 38 (1981) 75
Schenzle, A. and H. Brand, Dynamic behaviour of optical bistability 31 (1979) 401
Schenzle, A., see H. Brand 32 (1980) 359
Scherer, P., B. Kopainsky and W. Kaiser, The optical constants of thin films of pseudo-isocyanine chloride 39 (1981) 375
Schetter, K., see A. Hirth 34 (1980) 223
Schetter, K., see A. Hirth 35 (1980) 255
Schetter, K., see A. Hirth 40 (1981) 63
Schieder, R., see W. Hüffer 33 (1980) 85
Schieder, R., see K. Bielke 35 (1980) 342
Schieve, W.C., see R.R. Snapp 40 (1981) 68
Schiller, N.H. and R.R. Alfano, Picosecond characteristics of a spectrograph measured by a streak camera/video readout system 35 (1980) 451
Schlaak, H.F., A. Neyer and W. Sohler, Electrooptical oscillator using an integrated cutoff modulator 32 (1980) 72
Schlaak, H.F. and R.Th. Kersten, Integrated optical oscillators and their applications to optical communication systems 36 (1981) 186
Schlemmer, H., D. Frölich and H. Welling, Two-photon amplification on cascade-transitions 32 (1980) 141
Schmidt, A.J., see Q. Munir 36 (1981) 467
Schmidt, A.J., see E. Wintner 38 (1981) 230
Schmieder, D., D.J. Brink, T.I. Salamon and E.G. Jones, A high pressure 585.3 nm hydrogen laser 36 (1981) 223
Schmiedl, R., T. Böttner, H. Zacharias, U. Meier and K.H. Welge, State selective Doppler spectroscopy in a molecular beam. An application to multiple photon dissociation 31 (1979) 329
Schneeberger, B., F. Laeri, T. Tschudi and F. Mast, Realtime spatial light modulator 31 (1979) 13
Schneeberger, B., see F. Laeri 34 (1980) 23
Schneeberger, B., F. Laeri, T. Tschudi and F. Heiniger, Image amplifier for coherent optical active feedback in the 514 nm range 36 (1981) 107
Schreingraber, H., see C. Leubner 36 (1981) 205
Schröder, G., see G.S. Agarwal 34 (1980) 283
Schröder, G. and F. Haake, Spectral properties of superfluorescent pulses 39 (1981) 194
Schröder, H., see V.M. Baev 36 (1981) 57
Schröder, H., see V.M. Baev 38 (1981) 309
Schubert, M. and W. Vogel, Quantum statistical properties of the radiation field in the degenerate two-photon emission process 36 (1981) 164
Schubert, M., see S. Belke 38 (1981) 369
Schütte, F.-J., see W. Tänzler 37 (1981) 447
Schuurmans, M.F.H., Superfluorescence and amplified spontaneous emission in an inhomogeneously broadened medium 34 (1980) 185
Schwarzenbach, A.P., P. Lädrach and J.E. Balmer, Scaling law and polarization of second harmonic emission from laser generated plasma 39 (1981) 247
Scoles, G., see S. Avrillier 39 (1981) 311
Scudieri, F., Optical measurement of K_B/K_S divergence in nematics 37 (1981) 37

Scully, M.O., see R. Bonifacio 32 (1980) 291
Scully, M.O., see P. Meystre 33 (1980) 153
Scully, M.O., see T.G. Kuper 34 (1980) 117
Scully, M.O., see M.S. Zubairy 36 (1981) 175
Scully, M.O., see K. Drühl 38 (1981) 393
Sczaniecki, L. and W. Alexiewicz, Multi-photon cooperative radiation from two-level atoms in self-consistent field approximation (SCFA) 34 (1980) 57
Seaton, C.T., see D.A.B. Miller 32 (1980) 478
Sebastian, P.J. and K. Sathianandan, Energy transfer rhodamine 6G–safranin-T dye laser 32 (1980) 422
Sebastian, P.J. and K. Sathianandan, Donor concentration dependence of the emission peak in rhodamine 6G – rhodamine B energy transfer dye laser 35 (1980) 113
Segard, B. and B. Macke, Cooperative shortening and modulation of the resonance optical pulse stimulated by an off-resonance stepwise excitation 38 (1981) 96
Seibert, E.J. and L.G. Johnsson, Operation of a high power, broadly tunable infrared dye laser 39 (1981) 186
Seiler, D.G., M.W. Goodwin and K. Ngai, New intraband magneto-optical studies on n-InSb 31 (1979) 340
Seiler, D.G., see L.K. Hanes 34 (1980) 89
Seilmeier, A., see W. Kranitzky 34 (1980) 483
Seilmeier, A., see W. Kranitzky 39 (1981) 321
Seka, W., see G. Mourou 34 (1980) 252
Seka, W., S.D. Jacobs, J.E. Rizzo, R. Boni and R.S. Craxton, Demonstration of high efficiency third harmonic conversion of high power Nd-glass laser radiation 34 (1980) 469
Seka, W., see B. Yaakobi 38 (1981) 196
Seka, W., see B. Yaakobi 39 (1981) 175
Seka, W., R.S. Craxton, J. Delettrez, L.P.M. Goldman, R. Keck, R.L. McCrory, D. Shvarts, J.M. Soures and R. Boni, Measurements and interpretation of the absorption of 0.35 μm laser radiation on planar targets 40 (1982) 437
Selkirk, E.B., see S.L. Chin 31 (1979) 235
Semenov, V.E., see N.N. Rosanov 38 (1981) 435
Semenov, V.V., see S.A. Batishche 38 (1981) 71
Semple, D.J., see A.S. Naqvi 37 (1881) 356
Serafetinides, A.A., see A.K. Kar 37 (1981) 277
Serdyuchenko, Yu.N., see Z.Gy. Horváth 35 (1980) 142
Series, G.W., see S. Nakayama 34 (1980) 382, 389
Serkin, V.N., see S.K. Isaev 38 (1981) 136
Shah, V. and T. Tamir, Anomalous absorption by multi-layered media 37 (1981) 383
Shakir, S.A., Generation of breathers 33 (1980) 99
Shakir, S.A., Zero-area optical pulse processing by degenerate four-wave mixing 40 (1981) 151
Shakirov, A.H., see V.M. Antonov 38 (1981) 81
Shalaev, V.M., see A.K. Popov 35 (1980) 189
Shalagin, Z.M., see P.L. Chapovsky 40 (1981) 129
Shand, M.L., see C.L. Sam 31 (1979) 174
Shaparev, N.Ya., see I.V. Krasnov 34 (1980) 68, 181
Shaparev, N.Ya., see A.P. Gavriluk 39 (1981) 379
Shapiro, M.A., see N.S. Ginzburg 40 (1982) 215
Sharma, A., E. Sharma, I.C. Goyal and A.K. Ghatak, Variational analysis of directional coupler with graded index profile 34 (1980) 39

Sharma, A. and A.K. Ghatak, A variational analysis of single mode graded-index fibers 36 (1981) 22
Sharma, E., see A. Sharma 34 (1980) 39
Sharma, M.P. and P.R.P. Silva, Multiphoton excitation stimulated hyper-Raman 40 (1981) 122
Shaw, E.D., C.K.N. Patel and R.J. Chichester, 60 percent efficienty second harmonic generation from 12.8 μm radiation 33 (1980) 221
Shcherbakov, A.I., see Ya.I. Khanin 32 (1980) 456
Shelby, R.M., see R.M. Macfarlane 32 (1980) 101
Shelby, R.M., see R.M. Macfarlane 39 (1981) 169
Shen, M., D. Casasent, T.K. Luu and B. Feng, Lensless matched spatial filter correlator experiments 34 (1980) 311
Shen, M., D. Casasent, T.K. Luu and B. Feng, HOE/lensless matched spatial filter wavelength-scaling correlator 34 (1980) 316
Shibanov, A.N., see V.S. Antonov 38 (1981) 182
Shibata, K., see S. Yamamoto 31 (1979) 139
Shigenari, T., Y. Limura and Y. Takagi, On the static nature of the 'opalescence' near the α–β transition in a quartz crystal 31 (1979) 57
Shimada, J., see Y. Mitsuhashi 34 (1980) 309
Shimizu, F., see K. Kasahara 37 (1981) 100
Shirasaki, M., see H. Kuwahara 40 (1981) 99
Shkedov, I.M., see I.V. Krasnov 34 (1980) 181
Shkunov, V.V., see V.N. Blaschuk 31 (1979) 383
Shkunov, V.V., see N.F. Pilipetsky 37 (1981) 217
Shkunov, V.V., see O.V. Garibyan 38 (1981) 67
Shockley, R.C., Simplfied theory of the impulse response of an optical degenerated four-wave mixing cell 38 (1981) 221
Shore, B.W., see J.H. Eberly 35 (1980) 76
Shore, B.W., Extending the definition of optical depth to coherent pulse propagation 37 (1981) 92
Shorrock, L.D., see D. Jacoby 37 (1981) 193
Shotov, A.P., see V.G. Koloshnikov 35 (1980) 213
Shotton, K.C., see W.R.C. Rowley 34 (1980) 429
Shreider, E.Ja., see S.A. Batishche 38 (1981) 71
Shtarkov, A.L., see S.S. Alimpiev 31 (1979) 309
Shuker, R., A. Ben-Amar and G. Erez, Enhanced optogalvanic effect in pulsed optical resonance spectroscopy 39 (1981) 51
Shvarts, D., see B. Yaakovi 39 (1981) 175
Shvarts, D., see W. Seka 40 (1982) 437
Sibbett, W., see W. Margulis 32 (1980) 331
Sibbett, W., see J.O. Tocho 34 (1980) 122
Sibbett, W., see D. Welford 34 (1980) 175
Sibbett, W., see W. Margulis 35 (1980) 153
Sibbett, W., see D. Welford 35 (1980) 283
Sibbett, W., see J.O. Tocho 37 (1981) 67
Sibbett, W., see W. Margulis 37 (1981) 224
Sica, L., see H.H. Szu 35 (1980) 317
Sicre, E.E., see H.J. Rabal 34 (1980) 7
Sicre, E.E., see N. Bolognini 34 (1980) 337
Sicre, E.E., see H.J. Rabal 39 (1981) 225
Siegel, A., see B. Couillaud 35 (1980) 359

Siegel, A., see T.W. Hänsch 38 (1981) 47
Siegman, A.E., Dynamical interferometry and differential holography of irregular phase objects using phase conjugate reflection 31 (1979) 257
Siegman, A.E., Orthogonality properties of optical resonator eigenmodes 31 (1979) 369
Siegman, A.E., see R. Trebino 32 (1980) 1
Siemsen, K.J., The sequence bands of the carbon-13 isotope CO_2 laser 34 (1980) 447
Sievers, A.J., see R.K. Ahrenkiel 32 (1980) 503
Silberberg, Y. and I. Bar-Joseph, Low power phase conjugation in thin films of saturable adsorbers 39 (1981) 265
Silenok, A.V., see I. Ursu 35 (1980) 96
Silkis, E.G., see V.N. Bagratshvili 38 (1981) 31
Silva, P.R.P., see M.P. Sharma 40 (1981) 122
Silvennoinen, R. and T. Jääskeläinen, Design procedure using coupled multiwave efficiency analysis for wavelength shifted holographic optical elements 39 (1981) 123
Silvennoinen, R., Application of diffraction efficiency properties of thermoplastic material to wavelength shifted holographic optical lenses 39 (1981) 216
Silverans, R.E., see G. Borghs 38 (1981) 101
Sim, S.M.L., see P.D. Carter 32 (1980) 443
Sim, S.M.L., see A.J. Cole 36 (1981) 51
Sim, S.M.L., see E. McGoldrick 39 (1981) 172
Sim, S.M.L., see E. McGoldrick 40 (1982) 433
Simaan, H.D., Off-diagonal matrix for the double-beam two-photon absorbed light 31 (1979) 21
Simpson, T.B. and N. Bloembergen, Collisionless infrared energy deposition in OCS 37 (1981) 256
Singh, S., Bistability and intensity fluctuations in Zeeman lasers and amplifiers 32 (1980) 339
Singh, S. and L. Mandel, Measurement of two-time correlations in a two-mode ring laser 40 (1981) 139
Sirko, L., see J. Slaby 37 (1981) 165
Sivaram, B.M., see T. Govindanunny 32 (1980) 425
Sizer II., T., G. Mourou and R.R. Rice, Picosecond dye laser pulses using a cw frequency doubled Nd:YAG as the pumping source 37 (1981) 207
Sizer II, T., J.D. Kafka, A. Krisiloff and G. Mourou, Generation and amplification of sub-picosecond pulses using a frequency-doubled neodymium YAG pumping source 39 (1981) 259
Skalsky, M., see M. Miler 33 (1980) 13
Skasirsky, Ya.K., see O.I. Potaturkin 40 (1982) 164
Skrlac, W., see E.E. Fill 37 (1981) 123
Skrobol, Ch., see H.J. Eichler 34 (1980) 228
Skupsky, S., B. Yaakobi 34 (1980) 213
Słaby, J., see K. Chałasińka-Macukow 35 (1980) 332
Słaby, J. and L. Sirko, Essential features of the bleached silver halide holographic materials 37 (1981) 165
Smilanski, I., see J. Tenebaum 32 (1980) 473
Smilanski, I., see J. Tenenbaum 36 (1981) 391, 395
Smirl, A.L., T.F. Boggess and F.A. Hopf, Generation of a forward-traveling phase-conjugate wave in germanium 34 (1980) 463
Smirl, A.L., see A. Miller 38 (1981) 289
Smirnov, V.S., see A.P. Kazntsev 35 (1980) 209
Smirnov, V.V., see G.Ya Zueva 35 (1980) 218
Smith, A.L.S., see S. Moffatt 37 (1981) 119
Smith, A.V., see J.E.M. Goldschmith 32 (1980) 403

Smith, D.S., see K.M. Baird 31 (1979) 367
Smith, P.W., see O.R. Wood II 33 (1980) 307
Smith, S.D., see G. McClelland 31 (1979) 85
Smith, S.D., see D.A.B. Miller 31 (1979) 101
Smith, S.D., see P.G. Harper 32 (1980) 411
Smith, S.D., see D.A.B. Miller 32 (1980) 478
Smith, S.D., see H.A. MacKenzie 34 (1980) 205
Smith, S.D., see D.A.B. Miller 35 (1980) 221
Smith, S.J., see G. Leuchs 31 (1979) 313
Smith, S.R., see N.B. Abraham 38 (1981) 372
Smolińska, B., Optical correlator with shift invariant, linear, matched filter after Stroke 31 (1979) 297
Snapp, R.R., H.J. Carmichael and W.C. Schieve, The path to "turbulence": optical bistability and universality in the ring cavity 40 (1981) 68
Socino, G., see A. Alippi 35 (1980) 37
Socino, G., see A. Alippi 40 (1981) 19
Sohler, W., see H.F. Schlaak 32 (1980) 72
Sokabe, N., A. Higuchi, K. Imura, Y. Yasuda and A. Murai, Stark splitting of the optically pumped 118.8 μm CH_3OH laser line 34 (1980) 255
Sokolov, V.P., see A.P. Kazantsev 35 (1980) 209
Solliani, G., see I. Boscolo 36 (1981) 337
Solymar, L., see M.P. Owen 34 (1980) 321
Solymar, L., see T. Wilson 39 (1981) 11
Som, S.C., C. Delisle and M. Drouin, Holography in partially coherent light 32 (1980) 370
Sontag, H., see Ph. Cahuzac 31 (1979) 37
Sörlei, Z., see J.S. Bakos 37 (1981) 408
Soskin, M., see S. Odoulov 32 (1980) 355
Souma, H., see E.J. Heilweil 35 (1980) 227
Soures, J.M., see B. Yaakobi 34 (1980) 213
Soures, J.M., see B. Yaakobi 38 (1981) 196
Soures, J.M., see B. Yaakobi 39 (1981) 175
Soures, J.M., see W. Seka 40 (1982) 437
Spano, P., Connection between spatial coherence and modal structure in optical fibers and semiconductor lasers 33 (1980) 265
Spector, B.I., see O.I. Potaturkin 40 (1982) 164
Spence, S., see P. Kumav 32 (1980) 129
Spencer, D.J., see J.M. Herbelin 36 (1981) 475
Sperka, J., see A. Penzkofer 37 (1981) 437
Spiers, R.J., see S.R. Chinn 40 (1982) 179
Spjelkavik, B., see J.J. Stamnes 40 (1981) 81
Spyridelis, J., see A.G. Apostolidis 40 (1982) 249
Stacewicz, T., see J. Krasinski 33 (1980) 158
Stacewicz, T., Ionization of sodium vapour by intense laser light tuned to $3S \rightarrow 3P$ transition 35 (1980) 239
Stacewicz, T. and J. Krasinski, Investigations of ionization of sodium vapour by resonant laser light 39 (1981) 35
Stachelek, T.M., see R. Vasudev 38 (1981) 149
Staehli, J.L., see V. Capozzi 38 (1981) 284
Stagno, V., see I. Boscolo 36 (1981) 337

Stamatakis, T., see J.M. Green 39 (1981) 99
Stamenov, K.V., see S.G. Dinev 32 (1980) 313
Stamenov, K.V., see S.G. Dinev 35 (1980) 403
Stamenov, K.V., see V.L. Lyutskanov 37 (1981) 149
Stamnes, J.J., Focussing of a perfectly wave and the Airy pattern formula 37 (1981) 311
Stamnes, J.J., The Luneburg apodization problem in the nonparaxial domain 38 (1981) 325
Stamnes, J.J. and B. Spjelkavik, Focussing at small angular apertures in the Debye and Kirchoff approximations 40 (1981) 81
Standage, M.C., see W.R. MacGillivray 36 (1981) 189
Stankov, K.A., see S.G. Dinev 32 (1980) 313
Stankov, K.A., see S.G. Dinev 35 (1980) 403
Staude, W., see F. Böner 40 (1982) 407
Stavola, M., G. Mourou and W. Knox, Picosecond time delay fluorimetry using a jitter-free streak camera 34 (1980) 404
Stavola, M., M.G. Sceats and G. Mourou, Picosecond switching of a multi-kilovolt DC bias with laser activated silicon at low temperature 34 (1980) 409
Steel, D.G. and J.F. Lam, Saturation effects and inhomogeneous broadening in doppler-free degenerate four-wave mixing 40 (1981) 77
Steel, W.H., Scanning focus by interferometry 32 (1980) 214
Stefanov, M., see Y. Pacheva 31 (1979) 203
Stelzner, D.F., see R.Th. Kersten 36 (1981) 25
Stenersen, K. and G. Wang, Optically pumped high-pressure DF–CO_2 transfer laser 39 (1981) 251
Stenholm, S., see A. Bambini 32 (1980) 306
Stenholm, S., A Bargmann representation solution of the Jaynes-Cummings model 36 (1981) 75
Stenholm, S., see E. Arimondo 37 (1981) 103
Stepanov, S.I., see M.P. Petrov 31 (1979) 301
Stepanov, S.I., see T.G. Pencheva 40 (1982) 175
Sterin, Kh.E., see V.N. Denisov 34 (1980) 357
Stine, J.R. and D.W. Noid, Classical treatment of the dissociation of hydrogen fluoride with one and two infrared lasers 31 (1979) 161
Stine, J.R., see D.W. Noid 37 (1981) 187
Stoeckel, F., see J.P. Pique 33 (1980) 23
Stoeckel, F., see M. Larzilliere 37 (1981) 27
Stone, J., see J.-C. Diels 37 (1981) 11
Storz, R.H., see G.C. Bjorklund 31 (1979) 47
Straubinger, R., see H. Figger 33 (1980) 37
Stroganov, V.I., see A.I. Illarionov 31 (1979) 239
Stroganov, V.I. and A.I. Illarionov, Optical system aberration effect on the second harmonic generation 35 (1980) 455
Stroganov, V.I., see M.I. Kostenko 36 (1981) 140
Stroud Jr., C.R., see J. Krasinski 33 (1980) 158
Stroud Jr., C.R. and D.A. Cardimona, Double resonance self-induced transparency 37 (1981) 221
Strumia, F., see M. Inguscio 32 (1980) 87
Strumia, F., see M. Inguscio 35 (1980) 64
Strumia, F., see M. Inguscio 37 (1981) 211
Strumia, F., see N. Beverini 37 (1981) 394
Strunin, V.P., see P.L. Chapovsky 40 (1981) 129
Sturman, B.I., see L.F. Kanaev 34 (1980) 95

Subdø, A.S., M.M.T. Loy, P.A. Roland and R. Beigang, High peak power F_A(II) color center laser for time-resolved infrared spectroscopy 37 (1981) 417
Suciu, P., see R. Chişleag 39 (1981) 351
Sudarkin, A.N., see O.V. Garibyan 38 (1981) 67
Sudol, R. and B.J. Thompson, An explanation of the Lau effect based on coherence theory 31 (1979) 105
Suematsu, Y., see O. Hirota 33 (1980) 136
Sukhov, A.V., see N.F. Pilipetsky 37 (1981) 280
Sukhov, A.V., see O.V. Garibyan 38 (1981) 67
Suran, V.V., see N.B. Delone 40 (1982) 268
Subeck, H., W. Hug, M. Gremaud, M. Bridoux, A. Deffontaine and E. da Silva, The direct recording of Raman spectra with solid state detectors 38 (1981) 57
Surdutovich, G.I., see G.A. Delone 33 (1980) 149
Süsse, K.-E., W. Vogel and D.-G. Welsch, Intensity correlation of fluorescence radiation from impurity atoms in solids in the low temperature limit 33 (1980) 56
Süsse, K.-E., W. Vogel and D.-G. Welsch, Intensity correlation spectroscopy of the resonance fluorescence light of two-atomic molecules 36 (1981) 135
Suzuki, N., see H. Sato 33 (1980) 173
Suzuki, T., Optogalvanic spectroscopy with rf discharge 38 (1981) 364
Svelto, O., see R. Cubeddu 34 (1980) 460
Szabo, A., see P.E. Jessop 33 (1980) 301
Szabó, G., see B. Rácz 36 (1981) 399
Szatmári, S., see B. Rácz 36 (1981) 399
Szcepański, J., see Z. Konefal 36 (1981) 331
Szcepański, J., see J.R. Heldt 39 (1981) 325
Szoplik, T., see K. Chałasińska-Macukow 33 (1980) 245
Szoplik, T., see K. Chałasińska-Macukow 35 (1980) 332
Szu, H.H., MO imagery techniques using arrays of large aperture telescopes 32 (1980) 229
Szu, H.H., J.A. Blodgett and L. Sica, Local instances of good seeing 35 (1980) 317

Tabiryan, N.V., see N.F. Pilipetsky 37 (1981) 280
Tabiryan, N.V., see O.V. Garibyan 38 (1981) 67
Taghizadeh, M.R., see R.G. Harrison 34 (1980) 445
Takagi, Y., see T. Shigenari 31 (1979) 57
Takahashi, T., see T. Minemoto 38 (1981) 243
Takemori, T., S. Ueha and J. Tsujuichi, Real-time in-plane vibration measurements by speckle interferometry with the aid of liquid crystal light valve 32 (1980) 24
Takimoto, H., see Y. Fujii 38 (1981) 85
Takizawa, K., A measurement of electrooptic coefficients using a Lissajous figure 34 (1980) 413
Takizawa, K., Fresnel light modulator with an array of channel waveguides 37 (1981) 345
Tallents, C.J., On the fitting of displaced maxwellians to laser-produced plasma ion velocity distributions 37 (1981) 108
Tallents, G.J., see D. Jacoby 37 (1981) 193
Tallet, A., see M. Leberre-Rousseau 36 (1981) 31
Tamir, T., see V. Shah 37 (1981) 383
Tamura, O., see S. Nakanishi 31 (1979) 344
Tanaś, R. and S. Kielich, Finite laser bandwidth effects on *n*-photon resonance phenomena 32 (1980) 399
Tanaś, R., see Z. Ficek 36 (1981) 121

Tankersley, L.L., see J. Reintjes 39 (1981) 334
Tanone, A., see Y. Ohtsuka 31 (1979) 9
Tanone, A., see Y. Ohtsuka 39 (1981) 70
Tänzler, W. and F.-J. Schütte, Antibunching in multiphoton processes 37 (1981) 447
Tarasenko, N.V., see S.A. Batishche 38 (1981) 71
Tauc, J., see Z. Vardeny 39 (1981) 396
Taylor, A.J., K.M. Jones and A.L. Schawlow, A study of the excited $^1\Sigma_g^+$ states in Na_2 39 (1981) 47
Taylor, J.R., see W. Margulis 32 (1980) 331
Taylor, J.R., see D. Welford 34 (1980) 175
Taylor, J.R., see W. Margulis 35 (1980) 153
Taylor, J.R., see D. Welford 35 (1980) 283
Taylor, R.S., A.J. Alcock and K.E. Leopold, Electrical and gain characteristics of a simple compact XeCl laser 31 (1979) 197
Taylor, R.S., see P. Cassard 38 (1981) 127
Tchuksin, S.M., see G.Ya. Zueva 35 (1980) 218
Tehver, I.J., see V.V. Hizhnyakov 32 (1980) 419
Tehver, I.J., Raman profile with consideration for Condon and non-Condon terms 38 (1981) 279
Telbizov, P.K., see M.G. Grozeva 31 (1979) 211
Telegin, G.G., see A.D. Antsigin 32 (1980) 237
Telegin, L.S., see S.M. Saltiel 38 (1981) 443
Telle, H., see W. Hüffer 33 (1980) 85
Telle, H., W. Hüffer and D. Basting, The XeCl excimer laser: a powerful and efficient UV pumping source for tunable dye lasers 38 (1981) 402
Telle, H.R. and A. Laubereau, A new technique to study dielectric breakdown with picosecond laser pulses 34 (1980) 287
Tenenbaum, J., I. Smilanski, S. Gabay, L.A. Levin. G. Erez and S. Lavi, Structure of 510.6 and 578.2 nm copper laser lines 32 (1980) 473
Tenenbaum, J., I. Smilanski, S. Lavi, L.A. Levin and G. Erez, Kinetic investigation of the upper laser levels of the copper vapor laser 36 (1981) 391
Tenenbaum, J., I. Smilanski and L.A. Levin, Investigation of the kinetics of a metal vapor laser by an interferometric method 36 (1981) 395
Teschke, O. and S. Ribeiro Teixeiro, Unstable ring resonator nitrogen pumped dye laser 32 (1980) 287
Tewari, S.P., The absorption spectra of optical bistability with dispersion 34 (1980) 273
Tewari, S.P., see S.S. Hassan 40 (1982) 461
Thareja, R.K., see R. Illingworth 32 (1980) 51
Thareja, R.K., see J.S. Goela 40 (1982) 254
Thibeau, M., see J. Berrue 31 (1979) 317
Thiele, E., see J.-C. Diels 37 (1981) 11
Thieme, W. and E. Fill, Hyperfine relaxation in the iodine photodissociation laser 36 (1981) 361
Thomas, K.J., see K.T.V. Grattan 39 (1981) 303
Thomas, L., see S.K. Bhattacharyya 39 (1981) 387
Thomin, G., see J. Marcou 32 (1980) 63
Thomin, G., see N. Gremillet 32 (1980) 69
Thompson, B.J., see R. Sudel 31 (1979) 105
Thompson, B.V., The Maxwell-Bloch equations for three-photon coherent absorption 34 (1980) 488
Thun, C., see A.W. Lohmann 31 (1979) 114
Thyagarajan, K., A. Kumar and A.K. Ghatak, Perturbation analysis of the coupling between two cylindrical parabolic index waveguides 39 (1981) 26

Tietgen, K.H. and R.Th. Kersten, 180°-turns in integrated optics 36 (1981) 281
Tighe, W., see R. Fedosejevs 40 (1981) 35
Timmermann, A. and R. Wallenstein, Doppler-free two-photon excitation of nitric oxide with frequency-stabilized cw dye laser radiation 39 (1981) 239
Timpmann, K., see P. Saari 39 (1981) 94
Tiziani, H.J., K. Leonhardt and J. Klenk, Real-time displacement and tilt analysis by a speckle technique using $Bi_{12}SiO_{20}$-crystals 34 (1980) 327
Tobin, R.C., Rapid differential decay of metastable populations in a copper halide laser 32 (1980) 325
Tocho, J.O., W. Sibbett and D.J. Bradley, Picosecond phase-conjugated reflection from organic dye saturable adsorbers 34 (1980) 122
Tocho, J.O., W. Sibbett and D.J. Bradley, Thermal effects in phase-conjugation in saturable absorbers with picosecond pulses 37 (1981) 67
Todirashku, S.S., see A.V. Masalov 32 (1980) 497
Tolkachev, V.A., see N.A. Borisevich 33 (1980) 203
Tomita, A., see F.A. Hopf 36 (1981) 487
Tomita, A., see F.A. Hopf 37 (1981) 72
Tomov, I.V., see V.L. Lyutskanov 37 (1981) 149
Tomov, I.V., see S.M. Saltiel 38 (1981) 443
Tondello, G., E. Jannitti, P. Nicolosi and D. Santi, Structure of the XUV emitting regions in a laser produced plasma 32 (1980) 281
Tonelli, M., see A. di Lieto 31 (1979) 25
Torii, Y., see T. Kanedo 32 (1980) 220
Torii, Y., see S. Zembutsu 34 (1980) 19
Toschek, P.E., see Ph. Cahuzac 31 (1979) 37
Toschek, P.E., see V.M. Baev 36 (1981) 57
Toschek, P.E., see J. Białas 36 (1981) 317
Toschek, P.E., see V.M. Baev 38 (1981) 309
Trassy, C., see D. Ohebsian 32 (1980) 81
Trebino, R. and R.E. Siegman, Phase-conjugate reflection at arbitrary angles using TEM_{00} pump beams 32 (1980) 1
Tredicce, J., see C. Castellini 35 (1980) 387
Trehin, F., F. Biraben, B. Cagnac and G. Grynberg, Flashlamp pumped tunable dye laser of ultra-narrow bandwidth 31 (1979) 76
Tremblay, R., see G. Roy 33 (1980) 65
Tremblay, R., see G. Roy 34 (1980) 1
Tschudi, T., see B. Schneeberger 31 (1979) 13
Tschudi, T., see F. Laeri 34 (1980) 23
Tschudi, T., see B. Schneeberger 36 (1981) 107
Tschudi, T., see F. Laeri 36 (1981) 265
Tsujiuchi, J., see T. Takemori 32 (1980) 24
Tsujiuchi, J., see S. Ueha 34 (1980) 340
Tsujiuchi, J., see K. Ohnuma 36 (1981) 1
Tsujiuchi, J., see T. Honda 36 (1981) 11
Tsujiuchi, J., see K. Okada 36 (1981) 17
Tsujiuchi, J., see N. Magome 36 (1981) 347
Tsujiuchi, J., see N. Ohyama 36 (1981) 434
Tsujiuchi, J., see K. Ohnuma 37 (1981) 339
Tucker, G., see M. Wahlen 36 (1981) 39

Tumaikin, A., W. van Haeringen and D. Lenstra, Polarization properties of single-mode gas lasers with unusual patterns 38 (1981) 303
Turrin, A., Theory of quasilinearly tapered couplers having weighted coupling strength 33 (1980) 139
Tursunov, M.A., see N.B. Delone 36 (1981) 459
Turukhano, B.G., see A.M. Bekker 31 (1979) 290
Turukhano, B.G., see A.M. Bekker 39 (1981) 231

Ueha, S., see T. Takemori 32 (1980) 24
Ueha, S., N. Kobayashi, T. Saito and J. Tsujiuchi, Thermoplastic photographic material for vibration measurements by speckle photography 34 (1980) 340
Ueha, S., see N. Magome 36 (1981) 347
Ueunten, R., see N. Herbelin 36 (1981) 475
Ulitskiy, N.I., see V.G. Koloshnikov 35 (1980) 213
Ursu, I., I. Apostol, M. Dinescu, I.N. Mihailescu, M. Modovan, A.M. Prokhorov, V.P. Agreev, V.I. Konov, A.V. Silenok and M.I. Chapliev, Plasma-target coupling in the case of TEA-CO_2 laser produced breakdown in front of a solid target 35 (1980) 96
Ursu, I., I. Apostol, D. Bărbulescu, I.N. Mihăilescu, M. Moldovan, A.M. Prokhorov, V.P. Ageev, A.A. Gorbunov and V.I. Konov, The vaporization of a metallic target by a microsecond pulsed TE-CO_2 laser radiation 39 (1981) 180

Vacek, R., A new theoretical treatment of mode conversion in multimode fibers 38 (1981) 173
Vainer, Yu.G., see V.N. Bagratashvili 38 (1981) 31
Valat, P., G. Ripoche, M. Nail and J.P. Gex, Description and application of an intense and short diagnostic source between 1000 and 1600 nm 36 (1981) 378
Van den Cruyce, J.-M., see G. Borghs 38 (1981) 101
Vanderwal, J., S.M. Mudare and D. Walton, Deconvolution of Brillouin spectra 37 (1981) 33
Van Haeringen, W., see A. Tumaikin 38 (1981) 303
Van Hove, M., see G. Borghs 38 (1981) 101
Van Leeuwen, K.A.H., see E.R. Eliel 36 (1981) 366
Van Leeuwen, K.A.H., see E.R. Eliel 39 (1981) 41
Van Lerberghe, A., see A. Clairon 35 (1980) 368
Vannini, M., see R. Salimbeni 39 (1981) 75
Van Stryland, E.W., The effect of pulse to pulse variation on ultrashort pulsewidth measurements 31 (1979) 93
Vardeny, Z. and J. Tauc, Picosecond coherence coupling in the pump and probe technique 39 (1981) 396
Varwig, R.L., see C.P. Wang 34 (1980) 103
Vaselli, M., see A. Giulietti 33 (1980) 257
Vasi, C., see F. Aliotta 32 (1980) 274
Vasiliev, A.A., see O.V. Caribyan 38 (1981) 67
Vasnetsov, M., see S. Odoulov 32 (1980) 355
Vass, A., see R.A. Wood 33 (1980) 89
Vass, A., see R.A. Wood 35 (1980) 105
Vass, A., see B.W. Davis 37 (1981) 303
Vasu, R.M. and G.L. Rogers, Deblurring with a positive only filter after further blurring 35 (1980) 175
Vasudev, R., T.M. Stachelek, W.M. McClain and J.P. Woerdman, New two-photon transitions in sodium vapor: excitation spectrum and ELLIPSA detection of molecular–atomic hybrid resonances 38 (1981) 149
Vasudev, R. and W.M. McClain, Ellipsa-detected one- and two-photon transitions: I_2,

$B^3\Pi^+_{0\mu} - X^1\Sigma^+_g$ and NO, $A^2\Sigma^+ - X^2\Pi$ 38 (1981) 348
Velarde, M.G., see J.C. Antoranz 38 (1981) 61
Veldkamp, W.B., Laser beam profile shaping with binary diffraction gratings 38 (1981) 381
Velghe, M.F., see D.A.C. Deacon 40 (1982) 373
Vences, M.A., see M. Nieto-Vesperinas 36 (1981) 169
Verber, C.M., R.P. Kenan and J.R. Busch, An integrated optical spatial filter 34 (1980) 32
Verdieck, J.F., see R.J. Hall 35 (1980) 69
Vergnes, F. and N. Dupont-Pavlovsky, Eliipsometry without a compensator – two improvements in speed and reliability of the Monin and Boutry method 32 (1980) 5
Vernier, P., see G. Chambrier 32 (1980) 105
Verona, E., see A. Alippi 35 (1980) 37
Verona, E., see A. Alippi 40 (1981) 19
Vetri, G., see G. Battaglia 40 (1981) 19
Veza, D., J. Rukavina, M. Movre, V. Vujnovic and G. Pichler, A triplet satellite band in the very far blue wing of the self-broadening sodium D lines 34 (1980) 77
Vidal, B., Change of optical properties during the monitoring of quarter wave multi-layers 31 (1979) 259
Vidal, C.R., see C. Leubner 36 (1981) 205
Vidal, C.R., see H. Scheingraber 38 (1981) 75
Vidolova-Angelova, E.P., see G.I. Bekov 35 (1980) 194
Viénot, J.-C., see R. Ferrière 31 (1979) 285
Vijaya Kumar, B.V.K. and D. Casasent, Non-linear t–E curve effects in an optical correlator 34 (1980) 4
Vilaseca, R., see R. Corbalán 38 (1981) 113
Vilaseca, R., see R. Corbalán 40 (1981) 29
Viovy, R., see R. Journeoux 38 (1981) 330
Voge, D., see H.A. MacKenzie 34 (1980) 205
Vogel, W., see K.-E. Süsse 33 (1980) 56
Vogel, W., see K.-E. Süsse 36 (1981) 135
Vogel, W., see M. Schubert 36 (1981) 164
Voges, E., see H.-J Lilienhof 35 (1980) 49
Voges, E., see A. Neyer 37 (1981) 169
Vogler, K., see S. Belke 38 (1981) 369
Volk, R., see K.J. Witte 34 (1980) 278
Volkov, V., see A. Borshch 35 (1980) 287
Vollmer, H.D., see H. Risken 36 (1981) 480
Von der Heide, K., Least squares image restoration 31 (1979) 279
Von der Linde, D., see H. Klann 38 (1981) 390
Vuchkov, N.K., see M.G. Grozeva 31 (1979) 211
Vujnovic, V., see D. Veza 34 (1980) 77

Wagal, S.S., About the blue satellites to the resonance lines in laser produced plasma 40 (1982) 430
Wägli, P., see T.P. Donaldson 31 (1979) 61
Wagstaff, C.E. and M.H. Dunn, Saturated absorption spectroscopy in the ultra-violet with a continuous-wave, frequency-doubled, ring dye laser; even isotope shifts on the $6d^3D_1$–$6p^3P_0$ transition of HgI 35 (1980) 353
Wahlen, M. and G. Tucker, CH_3I: isotope shift for ^{129}I in the ν_6 band 36 (1981) 39
Wakabayashi, N., see T. Yoshimura 40 (1981) 10
Wakata, H., S. Saikan and M. Kimura, Study of opto-galvanic effect in two-photon

transition 38 (1981) 271
Waldeck, D., see D.B. McDonald 34 (1980) 127
Wallenstein, R. and H. Zacharias, High power narrowband pulsed dye laser oscillator-amplifier-system 32 (1980) 429
Wallenstein, R., Generation of narrowband tunable VUV radiation at the Lyman-α wavelength 33 (1980) 119
Wallenstein, R., see A. Timmermann 39 (1981) 235
Walls, D.F., see F.A. Hopf 31 (1979) 245
Walls, D.F. and P. Zoller, A coherent nonlinear mechanism for optical bistability from three level atoms 34 (1980) 260
Walls, D.F., see G. Milburn 39 (1981) 401
Walther, H., see G. Leuchs 31 (1979) 313
Walther, H., see H. Figger 33 (1980) 37
Walther, H., see P. Meystre 33 (1980) 153
Walther, H., see K.G. Weyer 37 (1981) 426
Walton, D., see J. Vanderwal 37 (1981) 33
Wang, C.P. and R.L. Varwig, Competition of longitudinal and transverse modes in a cw HF chemical laser 34 (1980) 103
Wang, G., see K. Stenersen 39 (1981) 251
Wang, Z.-W., see T.W. Hänsch 38 (1981) 47
Warrington, D.M., see R.J. Ballagh 37 (1981) 143
Webb, C.E., see A.J. Kearsley 31 (1979) 181
Webb, C.E., see A. Corney 31 (1979) 354
Weber, H., see W. Rudolph 34 (1980) 491
Weber, H.B., see P. Labudde 32 (1980) 385
Weber, H.P., see W. Lüthy 38 (1981) 413
Weber, K.-H. and K. Niemax, Self-broadening and shift of Doppler-free two-photon lines of Rb 31 (1979) 52
Weber, K.-H., see C.-J. Lorenzen 33 (1980) 271
Weber, K.-H., see R. Hotop 36 (1981) 35
Webster, C.R., L. Wöste and R.N. Zare, Narrow-band UV radiation (250–260 nm) from intracavity doubling a single-mode ring dye laser 35 (1980) 435
Weigmann, H.-J., see A. Lau 38 (1981) 139
Welford, D., W. Sibbett and J.R. Taylor, Dual component fluorescence lifetime of some polymethine saturable absorbing dyes 34 (1980) 175
Welford, D., W. Sibbett and J.R. Taylor, Intracavity second harmonic generation using a synchronously mode-locked cw dye laser 35 (1980) 283
Welge, K.H., see R. Schmiedl 31 (1979) 329
Welge, K.H., see H. Zacharias 35 (1980) 185
Welge, K.H., see H. Zacharias 37 (1981) 15
Welling, H., see H. Schlemmer 32 (1980) 141
Welling, H., see W. Gellerman 35 (1980) 430
Welsch, D.-G., see K.-E. Süsse 33 (1980) 56
Welsch, D.G., see K.-E. Süsse 36 (1981) 135
Werth, G., see A. Osipowicz 36 (1981) 359
Weyer, K.G., H. Wiedenmann, M. Rateike, W.R. MacGillivray, P. Meystre and H. Walther, Observation of absorptive optical bistability in a Fabry–Pérot cavity containing multiple atomic beams 37 (1981) 426

Wherrett, B.S., see D.A.B. Miller 35 (1980) 221
Whitford, B.G., Absolute frequencies of CO_2 laser transitions by multiplication of CO_2 laser difference frequencies 31 (1979) 363
Whitford, B.G., see K.M. Baird 31 (1979) 367
Whittaker, E., see R. Kachru 31 (1979) 223
Wickert, K., W. Demtröder and K. Baron, Experimental investigations of sensitivity limiting factors in an optical fiber gyro 40 (1982) 337
Wiedenmann, H., see K.G. Weyer 37 (1981) 426
Wiedmann, J., see A. Penzkofer 35 (1980) 81
Wiegand, M., Intensity correlations in resonance fluorescence from two atoms 36 (1981) 297
Wiersma, P., An incoherent optical processor to make a "spectrogram" of a 1-D function 33 (1980) 237
Willenberg, G.D., U. Hübner and J. Heppner, Far infrared cw Raman lasing in NH_3 33 (1980) 193
Willi, O., see M.M. Michaelis 36 (1981) 153
Willi, O., P.T. Rumsby and C. Duncan, Megagaus magnetic fields on laser irradiated spherical targets 37 (1981) 40
Willi, O. and P.T. Rumsby, Filamentation on laser irradiated spherical targets 37 (1981) 45
Wilson, T., D.K. Saldin and L. Solymar, A two-dimensional vectorial theory of degenerate four-wave mixing 39 (1981) 11
Winfield, R.J., see B.K. Deka 33 (1980) 206
Winfield, R.J., see B.K. Deka 39 (1981) 255
Winkler, R., see G.W. Zhang 40 (1981) 49
Wintner, E., see Q. Munir 36 (1981) 467
Wintner, E., Q. Munir and A.J. Schmidt, The nonlinear optical susceptibility $\chi_{(2)}$ near the bandgap in CdS 38 (1981) 230
Wirgin, A., On the reduction of reflection between two transparent media by interface roughening 37 (1981) 321
Witte, K.J., M. Galanti and R. Volk, n_2-measurements at 1.32 μm of some organic compounds usable as solvents in a saturable absorber for an atomic iodine laser 34 (1980) 278
Witte, K.J., see E.E. Fill 37 (1981) 123
Witte, K.J., On the determination of the stored optical energy of an atomic iodine laser amplifier from the energy measured in the free running mode 37 (1981) 293
Witteman, W.J., see G.L. Oomen 32 (1980) 461
Witteman, W.J. and G.L. Oomen, On the performance of an e-beam pumped KrF laser 32 (1980) 467
Wlodarczyk, M., Exposure and etching time optimalization in GaAs grating fabrication 31 (1979) 125
Wódkiewicz, K., Stochastic and quantum incoherence in optical processes 34 (1980) 393
Woerdman, J.P., see R. Vasudev 38 (1981) 149
Wolf, E., see E. Collett 32 (1980) 27
Wolf, E., see L. Mandel 36 (1981) 247
Wolf, E., New spectral representation of random sources and of the partially coherent fields that they generate 38 (1981) 3
Wolf, E. and Y. Li, Conditions for the validity of the Debye integral representation of focussed fields 39 (1981) 205
Wolf, E., see Y. Li 39 (1981) 211
Wolf, E. and W.H. Carter, Comments on the theory of phase-conjugated waves 40 (1982) 397
Wolffer, N., see S. Runge 32 (1980) 489
Wood II, O.R., P.W. Smith, P.J. Maloney and C.R. Adams, A high power transversely excited CO_2 waveguide laser 33 (1980) 307
Wood, R.A., A. Vass, C.R. Pidgeon, M.J. Colles and B. Norris, High power FIR lasing in

$^{15}NH_3$ optically pumped with an isotopically enriched CO_2 laser 33 (1980) 89
Wood, R.A., A. Vass, C.R. Pidgeon and W.J. Firth, Operating characteristics of an optically pumped waveguide FIR laser 35 (1980) 105
Wooding, E.R., see P.D. Carter 32 (1980) 443
Woods, P.T., B.W. Jolliffe and B.R. Marx, High-resolution spectroscopy of SO_2 using a frequency-double pulsed dye laser, with application to the remote sensing of atmospheric pollutants 33 (1980) 281
Woods, P.T., see B.R. Marx 33 (1980) 287
Woods, P.T., see W.R.C. Rowley 34 (1980) 429
Wöste, L., see C.R. Webster 35 (1980) 435
Wright, E.M., see W.J. Firth 40 (1982) 233
Wright, E.M. and W.J. Firth, Orthogonality properties of general optical resonator eigenmodes 40 (1982) 410
Wu, F.Y., see P.R. Hemmer 38 (1981) 105
Wünstel, W. and C. Klingshirn, Tunable laser-emission from Wurtzite-type II-VI compounds 32 (1980) 269
Wyatt, R. and D. Cotter, Picosecond pulse generation in the infrared by stimulated Raman scattering in atomic vapours 32 (1980) 481
Wyatt, R. and D. Cotter, A tunable picosecond IR laser generating multi-megawatt pulses in the range 3–8 μm 37 (1981) 421
Wyatt, R., Broadly tunable blue-green picosecond pulses from a flashlamp-pumped dye laser 38 (1981) 64

Xia, H.-R., G.-Y. Yan and A.L. Schawlow, Two-photon line shapes with near-resonant enhancement 39 (1981) 153

Yaakobi, B., R.L. McCrory, S. Skupsky, J. Delettrez, P. Bourke, H. Deckman, C.F. Hooper and J.M. Soures, X-ray absorption lines: signature for preheat level in non-explosive laser implosions 34 (1980) 213
Yaakobi, B., P. Bourke, Y. Conturie, J. Delettrez, J.M. Forsyth, R.D. Frankel, L.M. Goldman, R.L. McCrory, W. Seka, J.M. Soures, A.J. Burek and R.E. Deslattes, High X-ray conversion efficiency with target irradiation by a frequency tripled Nd: glass laser 38 (1981) 196
Yaakobi, B., T. Boehly, P. Bourke, Y. Conturie, R.S. Craxton, J. Delettrez, J.M. Forsyth, R.D. Frankel, L.M. Goldman, R.L. McCrory, M.C. Richardson, W. Seka, D. Shvarts and J.M. Soures, Characteristics of target interaction with high power UV laser radiation 39 (1981) 175
Yajima, T., see Y. Ishida 39 (1981) 411
Yakovlev, D.V., see A.I. Kovrighin 35 (1980) 92
Yamada, K., see Y. Fukuda 37 (1981) 299
Yamada, T., see S. Hayashi 36 (1981) 195
Yamamoto, H., see T. Yoshimura 40 (1981) 10
Yamamoto, S., K. Shibata and T. Makimoto, Electrooptic control of radiation loss in off-axial propagation in a $LiTaO_3$ waveguide 31 (1979) 139
Yamanaka, C., see Y. Kawamura 31 (1979) 178
Yamashita, A.B., see J.C.D. Brand 37 (1981) 178
Yamashita, A.B., see J.C.D. Brand 39 (1981) 235
Yan, G.-Y., see D.R. Lyons 38 (1981) 35

Yan, G.-Y., see T.W. Hänsch 38 (1981) 47
Yan, G.-Y., see H.-R. Xia 39 (1981) 153
Yang, G.C. and E. Leith, An image deblurring method using diffraction gratings 36 (1981) 101
Yannoni, C.S., see R.M. Macfarlane 32 (1980) 101
Yariv, A., see K.Y. Lau 34 (1980) 424
Yariv, A., see K.Y. Lau 35 (1980) 337
Yariv, A., see K.Y. Lau 36 (1981) 472
Yariv, A., see J. Nilsen 39 (1981) 199
Yariv, A., see T.L. Koch 40 (1982) 364
Yariv, A., Reply to the paper "Comments on the theory of phase-conjugated waves", by E. Wolf and W.H. Carter 40 (1982) 401
Yasa, Z.A. and N.M. Amer, A rapid-scanning autocorrelation scheme for continuous monitoring of picosecond laser pulses 36 (1981) 406
Yasuda, Y., see N. Sokabe 34 (1980) 255
Yatagai, T., K. Choji and H. Saito, Pattern classification using optical Mellin transform and circular photodiode array 38 (1981) 162
Yeh, P., Christiansen-Bragg filters 35 (1980) 9
Yeh, P., Zero crossing birefringent filters 35 (1980) 15, 465
Yeh, P., Dispersive birefringent filters 37 (1981) 153
Yen, R., P. Liu, M. Dagenais and N. Bloembergen, Incident angle and polarization dependence of four-photon photoemission from tungsten 31 (1979) 334
Yen, R., J. Liu and N. Bloembergen, Thermally assisted multiphoton photoelectron emission from tungsten 35 (1980) 277
Yishihara, T., see T. Yoshida 40 (1981) 45
Yoshida, T., M. Kobayashi, T. Yishihara, K. Sakai and S. Fujita, Stark effect in submillimeter laser lines from optically pumped CH_3OH and CD_3OD 40 (1981) 45
Yoshimura, T., H. Yamamoto and N. Wakabayashi, Measurement of velocity distributions with a laser doppler imaging system 40 (1981) 10
Young, W.A., M.Y. Mirza and W.W. Duley, Multiphoton ionization spectra in lithium vapour 31 (1979) 157
Young, W.A., M.Y. Mirza and W.W. Duley, Direct and hybrid two-photon transitions in Ga vapour 34 (1980) 353
Yu, F.T.S., T.H. Chao and M.S. Dymek, Multislip spatial filtered pseudocolor holographic imaging 32 (1980) 225
Yu, F.T.S., S.I. Zhuang and T.H. Chao, Multi-image regeneration by white light processing 34 (1980) 11
Yu, F.T.S., see P.H. Ruterbusch 37 (1981) 335
Yudson, V.I., see V.R. Mironenko 34 (1980) 397
Yunakovsky, A.D., see Ya.L. Bogomolov 36 (1981) 209
Yuratich, M.A., see D.C. Hanna 37 (1981) 359

Zacharias, H., see R. Schmiedl 31 (1979) 329
Zacharias, H., see R. Wallenstein 32 (1980) 429
Zacharias, H., H. Rottke and K.H. Welge, Photoionization of CO and NO by tunable VUV laser radiation 35 (1980) 185
Zacharias, H., H. Rottke, J. Danon and K.H. Welge, Resonant two-photon ionization of H and D atoms 37 (1981) 15
Zakharov, S.D., see V.V. Blazhenkov 34 (1980) 231

Zaki, Ch., see H.J. Eichler 40 (1982) 302
Zampetti, P., see P. Benetti 36 (1981) 218
Zapka, W., D. Cotter and U. Brackmann, Dye laser frequency tripling at 106 nm 36 (1981) 79
Zaraga, F., see S. de Silvestri 37 (1981) 20
Zare, R.N., see C.R. Webster 35 (1980) 435
Zasavitsky, I.I., see V.G. Koloshnikov 35 (1980) 213
Zavelovich, J., see M. Rothschild 39 (1981) 316
Zel'dovich, B.Ya., see V.N. Blaschuk 31 (1979) 383
Zel'dovich, B.Ya., see N.F. Pilipetsky 37 (1981) 280
Zel'dovich, B.Ya., see O.V. Garibyan 38 (1981) 67
Zembutsu, S. and Y. Torii, Computer-generated holograms using (Se,S)-based chalcogenide amorphous film 34 (1980) 19
Zemskov, K.I., see M.A. Kazaryan 33 (1980) 209
Zhang, G.W., H. Grethen, H.-D. Kronfeldt and R. Winkler, The influence of the beam expanding prism in a dye laser resonator on the linewidth and its dependence on the expansion ratio 40 (1981) 49
Zhang, Z.X., see J. Neukammer 38 (1981) 361
Zhdanov, B.V., see A.I. Kovrighin 35 (1980) 92
Zheludev, N.I., see A.I. Kovrighin 35 (1980) 92
Zhuang, A.L., see P.H. Ruterbusch 37 (1981) 335
Zhuang, S.I., see F.T.S. Yu 34 (1980) 11
Ziegler, L.D. and B.S. Hudson, Tuning ranges of 266 nm pumped dyes in the near UV 32 (1980) 119
Zinth, W. and W. Kaiser, Frequency shifts in stimulated Raman scattering 32 (1980) 507
Zinth, W., Transient coherent Raman scattering in the time and frequency domain 34 (1980) 479
Zoller, P., see D.F. Walls 34 (1980) 260
Zon, B.A., see N.B. Delone 40 (1982) 268
Zorell, J., Self-pulsing in ring lasers with detuning 38 (1981) 127
Zubairy, M.S., see R. Roy 32 (1980) 163
Zubairy, M.S., M.O. Scully and K. Just, Beam width correction in high precision Sagnac interferometry 36 (1981) 175
Zubairy, M.S., Radiative energy transfer in a randomly fluctuating medium 37 (1981) 315
Zueva, G.Ya., D.N. Kozlov, P.V. Nickles, A.M. Prokhorov, V.V. Smirnov and S.M. Tchuksin, High resolution CARS and infrared spectroscopy of the $\nu_1(a_1)$ and $\nu_3(f_2)$ vibrational states of $^{28}SiH_4$ and $^{74}GeH_4$ 35 (1980) 218
Zueva, T.V., see V.G. Minogin 38 (1981) 225

Instructions to authors

Contributions should be sent in *triplicate* to the editor. Contributors are reminded that, once their contribution has been accepted for publication, *all further correspondence should not be sent to the editor, but directly to the publisher. (Editorial Department, North-Holland Publishing Company, P.O. Box 103, 1000 AC Amsterdam, The Netherlands).* Manuscripts should be written in English, French or German. Each manuscript should contain an abstract in English. Manuscripts should be typewritten originals (plus two copies) with a wide margin and ample space between the lines. Contributions are strictly limited to 6 printed pages. As all proofreading will be done by the publishers' staff and no proofs will be sent to the author, the presentation of the manuscript should be very clear. Special care should be taken of those symbols which might easily cause confusion (e.g. o, 0, O; κ, k, K; X, x, $\times$, χ; z, Z; $\propto$, α; φ, ϕ, $\emptyset$; t, τ, T, Γ; $\langle$, <, $\rangle$, >; w, ω; p, ρ, etc). All Greek letters and unusual symbols should be identified in the margin the first time they occur in the text. No manuscripts will be returned unless by special request of the author. All references must be numbered, put at the end of the paper, and should contain the names and initials of all authors. References should not contain footnotes. Figures should be sharp glossy prints of about manuscript size, or, preferably, original drawings. They should be lettered by using a lettering guide (stencil) or stripletter (e.g., letraset) in such a way that they can be reduced to one-column width (7½ cm). All figures should have captions.

For purposes of compiling a subject index authors are requested to index their manuscripts according to the following classification list:

1. *Propagation and transmission in homogeneous media* (interference, diffraction, coherence, polarization, geometrical optics, optical measurement techniques).
2. *Propagation and transmission in inhomogeneous media* (coherence in random turbulent media, scintillation, scattering from haze, fog, dust, etc., atmospheric optics).
3. *Optical information, image formation and analysis* (Fourier transform optics, modulation and optical transfer functions, optical storage and retrieval, holography, pattern recognition, image processing and restoration, speckle).
4. *Optical communications* (optical waveguides, fiber optics).
5. *Atomic and molecular physics* (atomic and molecular spectra and interactions with photons, atomic and molecular collision processes and interactions, use of optical techniques for determining other properties).
6. *Condensed matter* (spectroscopy, optical properties of materials, use of optical techniques for determining other properties).
7. *Plasmas.*
8. *Lasers* (including laser beam interactions and applications).
9. *Nonlinear optics* (stimulated Raman, photon echoes, parametric oscillations and other interactions of radiation with matter, harmonic generation, beam trapping, self-induced transparency and related effects).

In the absence of such indications by the author, the classification will be done by the Editor.

ENRICO FERMI INTERNATIONAL SUMMER SCHOOL OF PHYSICS, Vol. 74

Development in High Power Lasers and Their Applications

Proceedings of the International School of Physics "Enrico Fermi", Course LXXIV, Varenna, Italy, 10-22 July, 1978, Vol. 74

edited by C. PELLEGRINI, *C.N.E.N. Centro di Frascati, Rome, Italy*

1981 xii + 480 pages Price: US $89.25/Dfl. 210.00 ISBN 0-444-85459-2

This book presents a review of the basic principles and recent developments of: high peak power lasers and their applications to laser fusion; high average tunable lasers and their applications to photochemistry, isotope separation and related fields.

A very recent and very promising new laser system, the free-electron laser, is also extensively discussed. Both our present-day knowledge and the possible future developments of this new laser, which might find new and interesting applications because of its high power and its possibility to operate at all wavelengths from the far infra-red to the ultraviolet, are dealt with.

The lectures presented at this Course start from the basic elements of high power laser physics and technology and the fundamental principles of the fields in which they are applied and then continue to review and discuss the most recent work. Some seminars given at the School and discussing more specialized topics are also included in this work.

CONTENTS: Preface *(C. Pellegrini).* Introduction to High-Energy Lasers *(F. A. Hopf).* Laser-Fusion and Laser-Plasma Interactions *(R. Balescu).* High Power, Short Pulse CO_2 Laser Systems for Inertial Confinement Fusion *(S. Singer et al.).* The High Power Iodine Laser *(E. E. Fill).* High Power Tunable Lasers and Their Applications to Photochemistry and Isotope Separation *(K. L. Kompa).* Photophysical and Photochemical Properties of Gaseous UF_6 *(S. De Silvestri, O. Svelto and F. Zaraga).* High Power 16-Micrometer Lasers for Uranium Isotope Separation *(S. Martellucci and S. Solimeno).* High Power Chemical Lasers *(S. Solimeno and S. Martellucci).* Single Particle Theory of the Free Electron Laser *(S. Stenholm).* Coherent Dynamics of the Free-Electron Laser *(G. T. Moore et al.).* The Free-Electron Laser: The Storage Ring Operation.

Subscription Scheme

This book, volume 74 in the renowned **Enrico Fermi Series,** is available under a subscription scheme offering a special discount of 15% on the list price.

NORTH-HOLLAND

IN THE U.S.A. AND CANADA:
ELSEVIER SCIENCE PUBLISHING CO., INC.
52 VANDERBILT AVENUE
NEW YORK, N.Y. 10017

IN ALL OTHER COUNTRIES:
ELSEVIER SCIENCE PUBLISHERS
P.O. BOX 211
1000 AE AMSTERDAM
THE NETHERLANDS

The Dutch guilder price is definitive. US $ prices are subject to exchange rate fluctuations.

p1544 NHa